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Earnings management determinants: Comparison Between Islamic and Conventional Banks across the ASEAN region

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ABSTRACT

This study aims to analyze company characteristics as a determinant of conventional and Islamic bank earnings management in several ASEAN countries (Association of Southeast Asian Nations). The Multiple Discriminant Analysis was used to determine th⁵⁰ fferences between Islamic and Conventional Banks. This test was conducted based on Capital Adequacy Ratio, Income Before Tax and Interest, Non-Performing and Changing Loans, Company's Size, CPI, and Kurs in banks located in Indonesia, Malaysia, and Brunei Darussalam from 2014 to 2020. The data obtained from 40 banking entities were analyzed discriminatively. The results showed simultaneous differences between Capital Adequacy Ratio, Income Before Tax and Interest, Non-Performing and Changing Loans, Company's Size, CPI, and Kurs as determinants durnings management between Islamic and conventional banks. It also showed that the Company's Size was the dominant variable determining the management differences. Based on Discriminant Analysis, there were significant differences in conventional and Islamic earnings mangement determinants. The Changing Loan variable showed the highest contribution in determining rnings management in Islamic banks. Overall, this study found that conventional banks dominated the

Islamic system in practicing earnings management. © 2022 Th ⁴ uthors. Published by Elsevier B.V. on behalf of College of Management, National Cheng Kung Universit, ⁴ vis is an open access article under the CC BY-NC-ND license ² tp://creativecommons.org/ licenses/by-nc-nd/4.0/).

1. Introduction

A critical question in the current banking system is how management provides valid and reliable financial information. This behavior is closely related to earnings management, which determines the income size. The current banking systems contain varying profit sharing and interest-based systems, well-known by Islamic and conventional banks, which affect management behavior interms of earnings. Therefore, there is a need to conduct a study of arnings management in both Islamic and conventional banks to address the problem faced in controlling income (Lobo, 2017). Earnings management is a unique and interesting topic that develops more accurate proxies in bank settings due to its relatively homogeneous sample (Garsva, Skuodas, & Rudzioniene, 2012).

Preliminary studies were conducted on this topic by Elnahass,

Izzeldin, and Steele (2018), Mozayani and Parvizi (2016), Packer and Zhu (2012), and Savitri, Andreas, Syahza, Gumanti, and Abdullah (2020). Meanwhile, Chan, Li, and Lin (2019) found that Islamic banking status does not determine earnings management.

Furthermore, Othman and Mersni (2014), Kao, Chen, and Lu (2018), and Suzuki, Uddin, and Sigit (2019) examined the factors influencing Islamic and conventional banking policies in three countries, namely Indonesia, Malaysia, and Brunei Darussalam. They stated that Islamic banking policy examined by DLLL 2 apital, and earnings management is more reliable than conventional and weaker in terms of NPLs. This finding indicate of Islamic banking earnings management is different from conventional.

lamic banking is based on Profile and Loss Sharing (PLS), while conventional system is associated with interest. The principles of Islamic banking operationally apply ¹².udarabah and musharakah techniques sourced from classical jurisprudence to avoid (usury) interest. Therefore, in their empirical study, Prima Sakti and Mohamad (2018), and Suripto and Supriyanto (2021) stated that real and different economic activities support business transactions in Islamic banking.

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Abbreviations: ASEAN, Association of South East Asia Nations.

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Another difference in Islamic banking is examined from the financing products used, namely musharaka and mudarabah, which have high capital compared to its debt. Therefore, these products select the pro-cyclical model, which attempts to emulate conventional banking instruments by developing non Profile and Loss Sharing (PLS) (Soedarmono, Pramono, & Tarazi, 2017, Zohd Isa, Voon Choong, Yong Gun Fie, and Abdul Rashid (2018), Cevik and Charap (2015) stated that the Islamic deposit rate is similar to conventional banking. The Islamic system avoids high-risk investments because it is conservative and more profit management (Farook, Hassan, & Clinch, 2014). Therefore, Islamic banking tends to have a smaller risk than conventional in earnings management. However, this is inconsistent because the sample sizes are not represented (Othman & Mersni, 2014).

The research in Malaysia, Bangladesh, Indonesia, and Pakistan showel Lat Islamic banks perform less earnings management than the conventional system (Quttainah, Song, & Wu, 2013). Preliminary research by Lassoued, Attia, and Sassi (2018) analyzed the importance of organizational religiosity in making Islamic-oriented companies' decisions to produce adequate financial reports (Dyreng, Mayew, & Williams, 2012). Risk management in banking is essential, as the Islamic system always reserves for Ioan losses, income smoothing, and investment risk, which are regulated in the profit-loss sharing system 27 Julila Taktak, Ben Slama Zouari, & Boudriga, 2010). The agency theory is used to explain earning management, where banks managers receive rewards in line with the increase in the company's financial performance (Leventis et al., 2011).

Therefore, the object of this research was selected based on the fact that Islamic and conventional banking in ASEAN countries were established and developed together. In the empirical study conducted by HT and Rama (2018), Indonesia, Malaysia, and Brunei Darussalam are part of the Southeast Asian countries ranked as the highest in managing Islamic banking. This is because they have the same characteristics, for example, the majority of the populations in these countries are Muslim. Therefore, the development of Islamic banking is rapid in contrast to previous research by Othman and Mersni (2014), Beck, Demirgüç-Kunt, and Merrouche (2013), which examined 21 Islamic and 18 interest-based banking systems for eight years with limited data from seven middle-east countries.

None of the preliminary studies were conducted using banking samples in ASEAN, especially Indonesia, Malaysia, and Brunei Darussalam. Based on research by Ali, Noor, Khurshid, and Mahmood (2015), these countries are Southeast Asian states included in the highest ranking in managing Islamic banking because the majority of the populations are Muslims.

In this study earnings management in ASEAN is part of a significant variable ¹² sed to determine Islamic and conventional banks. This research aims to determine how ⁶ arnings Management is conducted in Islamic and Conventional Banks in ASEAN to determine the simultaneous difference between Capital Adequacy Ratio, Income Before Tax and Interest, Non- Performing and Changing Loans, Company's Size, CPI and Kurs. It was also conducted to determine the Changing Loan variable with the highest contribution in determining management in Islamic banks. Overall, this study found that conventional banks dominate the Islamic system in performing earnings management.

2. Literature review

2.1.³⁴ gency theory

Jensen and Meckling (1976) stated that in the agency theory,⁵¹ conflict of interest exists between the principal and the agent, where the agent act according to their individual interest when

there is an opportunity. According to Agoglia, Hatfield, and Lambert (2015), when there is no conflict of interest, the agent's actions tend to be more in line with the principal's goals.

2.2.¹³arnings management

Earnings management is the manipulation of reported income, hence th¹³ ofit and loss account does not represent the real economic conditions of banking activity. One of its practices is the smoothing process, which aims to reduce the composition of net income for each period. Managers increase loan loss provisions (LLP) when the initial condition of income has a high value and decreases when the initial earning is low to stabilize net income (Curcio & Hasan, 2015; Semaw Henock, 2019; Shu, Yeh, Chiu, & Yang, 2015). LLP is a cost item on the income reflecting an assessment for managing expected losses due to unpaid loans, and keeping the records reduces net income. Furthermore, Managers use valuations in reporting transactions to change financial statements, making it impossible for stakeholders to obtain information on company performance (Ceccobelli & Giosi, 2019). Islamic banks differ from conventional because they use a profit-sharing system known as Profit Loss Sharing or PLS (Soedarmono et al., 2017).

The earning management is practiced to improve bank performance, shown in the CAMEL approach (Capital, Assets, Management, Earnings, and Liquidity). This means that the amount of CAMEL proxied by the capital (Capital Adequate Ratio), Earning (Earning Before Tax and Provisions), and bad credit (Non-Performance Loan) determine earnings management practices (Elnahass, Izzeldin, & Abdelsalam, 2014; Wijayanti, Diyanty, & Laela, 2020). According to ¹⁸oulila Taktak et al. (2010), both conventional and Islamic banks carry out earnings management or LLP (Elnahass et al., 2014). However, no evidence of earnings management by Islamic system was found from this study to explain bank characteristics, which include CAR (Positive and Significant), Size (Negative and Significant), and Loans (Positive and Significant)¹.

The business model of PLS in Islamic banks limits the ability to manage earnings through LLP². Additionally, the agency cost factor is relatively higher because investors are not engaged in business decisions directly and do not have a board of directors' representatives. These reasons require investors to monitor investment through the publication of financial statements. In protecting their investments, they attempt to convince bank² egulators to evaluate and develop the governance mechanisms in the Islamic bank. This behavior aims to enhance the quality of financial statements (Elnahass et al., 2018). One of the implications of agency theory is that managers improv² rm performance and achieve rewards by applying LLP in income smoothing (Elnahass et al., 2018). The use of reserves in Islamic and conventional banks is different. According to Othman and Mersni (2014), the reserve policy on Islamic banks is better than conventionals because it considers actual and future losses.

Earnings management is measured using two concepts, discretionary and non-discretionary accruals. The discretionary accrual

¹ The two terms are similar in meaning. However, One of the practices of earnings management is the smoothing, which aims to reduce the composition of net income for each period. Earnings management is measured using two concepts, discretionary and non-discretionary accruals. The discretionary accrual is the recognition of profit or expense, which is a management choice.

² One of the agency theory implications is that managers improve firm performance, and achieve rewards by applying LLP in income smoothing (Elnahass et al., 2018) The reserve policy on Islamic banks is better than conventionals in that it considers not only actual, and also future losses (Othman & Mersni, 2014). In contrast, non-discretionary accruals is the recognition of reasonable profit which affect the financial statements (Faradila & Cahyati, 2013).

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recognizes profit or expense, which is a management choice. In contrast, non-discretionary accruals recognize reasonable profit that affects the financial statements (Faradila & Cahyati, 2013). Several factors influence earnings management using LLP, such as Capital Adequacy Ratio (CAR), Earnings before Tax, Loan Loss Provisions (EBTLLP), Non-Performing Loans (NPL), Change Loans (CLOANS), and Size.

CAR is a bank capital expressed as a percentage of the weighted risk. The minimum ratio guarantees them to absorb the losses before experiencing financial difficulties (Mili, Sahut, Trimeche, & Teulon, 2017)³.

A high allowance when capital is low is consistent with a reduced capital acquisition cost that correlates with more exceptional LLP practices (Packer & Zhu, 2012). Furthermore, EBTLLP measures the bank's ability to use assets in generating income before tax and LLP (Elnahass et al., 2018). Good quality assets increase higher profitability, therefore, it is imperative for banks to efficiently manage them and other factors of profitability (Swamy, 2017; Rafay, Farid, Yasser, & Safdar, 2020).

Meanwhile, Non-Performing Loans⁴³, PL) is the ratio of impaired tothe total loans. Change Loans (CLOANS) transform the total loans from the current and the previous year (Elnahass et al., 2018). Variable NPL and CLOANS are used to measure the credit quality because it is more of risk than other assets, such as cash, reserves, and bonds. Therefore, high loans are associated with low credit quality (Packer & Zhu, 2012). Size is related to the company's internal control system, which reduces the suspicion of earnings management. Large companies have more effective internal control systems and competent auditor teams than smaller ones.

This led to the reliability of the public financial statements (Ali et al., 2015). 2 bodelsalam, Dimitropoulos, Elnabass, and Leventis (2016) and Lassoued et al. (2018) examined the lanks in middle-

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east and north Africa countries, in which conventional-based management earnings more than the Islamic. Islamic banks tend to manage income by reporting earnings and discretionary accrual cases. Caporale, Alessi, Di Celli, and Lopez's (2018) research showed that earnings management. Italian banks is counter-cyclical with non-discretionary components, while macroeconomic shocks play an important role.

CKPN has fewer occurrences in CKPN has fewer occurrences in CKPN has because their loans are more guaranteed, and supervisory activities strongly influence their behaviour.

Nadzifah and Sriyana's (2020) research conducted in Indonesia reported that CPI and exchange rates in sharia-based and conventional banks influence earnings management. Similarly, Hidayati (2014) stated that managers identify that when the exchange rate appreciates or depreciates, it impacts bank profitability in conventional and Islamic banks.

The study by Shawtari, Ariff, and Abdul Razak (2019) conducted in Indonesia stated that ¹⁶ arnings management at Islamic-based banks is lower than conventional, similar to Othman and Mersni's (2014) research. Pinto and Ng Picoto (2018) stated that managers use LLP to manage income and capital regulation. The key provisions of LLP are size and NPL, while Elnahass et al. (2018) reported the practice of earnings management through CKPN in conventional-based, especially in large banks that suffered losses. Conversely, Islamic systems tend not to use CKPN in earnings or capital management. The difference is due to the limited Islamic banking business model, strict governance, and ethical orientation.

The following table explains previous research related to the ASEAN region.

No	. Researcher	Variable	Research result
1	¹⁵ delsalam et al.	CKPN NPL	Islamic banks are smaller in managing income and adopting to more conservative accounting policies.
	(2016)	Loan IB	
		Ownership year	
2	Caporale et al.	CKPN NPL NPL loan IS	The results sho 3 at LLP in Italian banks is counter-cyclical, with non-discretionary components and
	(2018)	STAMP SIGN GDP	macroeconomic shocks playing an important role. Moreover, LLPs are less cyclical in the case of local banks because
		Crisis	beir loans are more secured with more strongly behavior influenced by supervisory activities.
3	Pinto and Ng	CKPN NRE STAMP NPL GDP T	423 Ink managers use CKPN to manage income and capital regulation. The key provisions are bank size and NPL.
	Picoto (2018)	Listed	
4	hahass et al.	CKPN	There is a practice of earning management through CKPN in conventional banks, especially in large ones that
	(2018)	Tier 1 EBTLLP NPL loans	experience losses. Conversel 2 amic banks tend not to use CKPN in managing earnings or capital. The difference
		Listing Crisis GDP IB	is due to the limited Islamic banking business model, strict governance, and ethical orientation.
5	Mohd Isa et al.	KPN NPL	Provisions of loan loss and non-performing loans are determined by interest income, loans and advances, net
	(2018)	Cerest Income Net Profit	impme, and Gross Domestic Product, th 10 oderating effect of credit risk management, and the interference effect
		Loans GDP	levance and faithfulzepresentation, which are determinants of loan loss provisions. The moderate variable of
			credit risk managemen generations the relationship between the independent and dependent variables.
			Intervening variables relevance and loyal representatives leads to more accurate reporting of the extent of loan
			loss provisions.
6	Lassoued et al.	CKPN LLA NCO	Islamic ank manages less income than conventional, while bothe discretionary loan loss provisions to manage
	(2018)	Loans Loans NPL	incom stitutional owners encourage earnings management in Islamic banks, and state participation increases
		Loan Categories Country	earnings management in conventional banks.
		Control Year Control	
7	Alhadab and Al-	CKPN EQIN EBTLLP CPTR	Earnings improve earnings management through CKPN practiced by European bank executives motivated by
	Own (2019)	Size Leverage Crisis IFRS	executive compensation.
		Country	

³ Capital Adequacy Ratio (CAR) (Alhadab & Al-Own, 2019, ⁴⁰ arnings Before Tax and Loan Loss Provisions (EBTLLP) (Elnahass et al., 2018), (Chan & Lin, 2017). Non-Performing Loans (NPL) (Hermuningsih et al., 2020). Change Loans (CLOANS) (Alhadab & Al-Own, 2019). Size (Kartikasari & Merianti, 2016), (Jaisinghani & Kanjilal, 2017) and (Mamipour & Sepahi, 2015), Corruption Perception Index (CPI) (Joseph et al., 2016), Kurs (Nadzifah & Sriyana, 2020).

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3. Data and variables

Th²⁰ata used in this study was obtained from the annual reports of Indonesia, Malaysia, and Brunei Darussalam Bank. The number of samples was 40 banks, consisting of 20 from conventional and 20 from Islamic banks, from 2014 to 2020. This study compares the variables of conventional and Islamic banking in Indonesia, Malavsia, and Brunei Darussalam, which included CAR for capital measurement, EBTLLP for assessing credit risks, and company size for evaluating the firm magnitude classified as large, medium, or small.

3.1. Conceptual Definition of Variable

from the previous (Alhadab & Al-Own, 2019).

H4 = There is a significant difference in Change Loans (CLOANS) arnings management between conventional and Islamic banks. Size

The company's size is an embodiment of the total owned assets. which includes the capital, rights, and obligations (Jaisinghani & Kaniilal, 2017: Kartikasari & Merianti, 2016: Mamipour & Sepahi, 2015). The firm or business size was based on several elements. such as the total assets.

H5 = here is a significant difference in earning management size between conventional and Islamic banks.

No.	Variable	Definition	Source
1.	Earnings management	Earnings managemen 10 the manipulation of financial statements by managers, using choices, estimates, and accounting methods, to achieve several goals that are largely at odds with the underlying economic status of the firm.	
2.	Capital Adequacy Ratio (CAR)	For safety in the modern banking system, banks need to plan a certain amount of capital to support the growth	Alhadab and Al- Own (2019)
3.		² productive assets according to the bank's work plan. ² measure of a bank's capacity in using its assets to generate income before liabilities and CKPN.	Elnahass et al. (2018)
4.	52 52 52 54 performing Loan (NPL)	The main cause of bank failure is due to bad credit with the high NPL offset by the increase in the level of reserves.	Alshebmi et al. (2020)
5.	Change Loans (CLOANS)	Changes in the current year's credit score with the previous year.	Alhadab and Al- Own (2019)
6.	Size	Company size is a manifestation of the total assets owned, which includes capital, as well as rights and obligations owned.	Dewi and Indriani (2016)
7	Corruption Perception Index (CPI)	The corruption perception index data issued annually by TI is believed to be valid data in measuring the corrupt practices of a country.	Joseph Joseph et al. (2016)
8	Kurs	The foreign exchange rate shows the value of one country's currency expressed in terms of another currency	Nadzifah and Sriyana (2020)

Source: the authors' Conceptual Definition of Variable.

Definition of Operational Variables

⁴⁵apital Adequacy Ratio (CAR)

CAR is the assessment of the modern banking system's safety. Banks are required to plan a certain amount from the capital to support the growth of productive assets that are in line with their working plan (Alhadab & Al-Own, 2019). This ratio identifies bankability in providing reserve funds to minimize loss risks.

31 There is a significant difference in Capital Adequacy Ratio La earnings management between conventional and Islamic (CAR banks.

²⁹arnings Before Tax and Loan Loss Provisions (EBTLLP)

EBTLLP is the capacity measurement in using assets to generate earnings before its liabilities and CKPN (Chan & Lin, 2017; Elnahass et al., 2018). This ratio is measured as the banks' earnings before the reserve's impairment loss on total bankassets.

H2 = There is a significant difference in Earnin²² efore Tax and Loan Loss Provisions (EBTLLP) on Larnings management between conventional and Islamic banks.

on-Performing Loans (NPL)

NPL is the measurement of impaired credits, which is the main reason for default in banks. According to Hermuningsih, Sari, and Rahmawati (2020), high NPL needs to be balanced with increased reserve funds. It is also defined as the inability of customers to pay part or all of their obligations to the bank. H3 = There is the significant difference in Non-Performing Loans

(NPL) on ¹arnings management between conventional and Islamic banks.

Change Loans (CLOANS)

Change loans are the changes in the current year's credit value

Corruption Perception Index (CPI)

The corruption perception index data issued annually by TI is believed to be valid in measuring the corrupt practices (Joseph Joseph, Cunawan, Sawani, Rahmat, Avelind Noyem, & Darus, 2016). H6 There is a significant difference in CPI of earnings man-

agement between conventional and Islamic banks. The VECM estimation results for 19 onventional and Islamic banks

show that the exchange rate has a positive and significant effe c^{39} the long term. The results are in line with (Hidayati, 2014) which stated that currency exchange rates influence profitability banking. The existence of this influence indicates that if the exchange rate appreciates or depreciates, it impacts the level of banking profitability.

There is a significant difference in kurs of earnings man-H7 agement between conventional and Islamic banks.

Multiple Discriminant Analysis (MDA)

Multiple discriminant analysis has two main steps, the first is the F-Test (Wilks Lambda) used to determine whether this model as a whole is significant or insignificant. Second, assuming the F-Test shows significant value, and then each independent variable is assessed for their differences. In the average group, it is used to classify the dependent variable. The discriminant equation is formulated as follows:

Where

- L = linear combination of discriminating (independent) variable
- b1 bn = discriminant coefficient
- c = constant value

X1 = capital adequacy ratio (CAR) $X2 = earning before tax an <math>\frac{35}{2}an loss provisions$ (EBTLLP)

X3 = non-performing loans (NPL)

- X4 = change loans
- X5 = size

X6 = CPI

X7 = Kurs

The Determinant of Cut-Off Value

Both groups observed in this study have several samples, therefore, the equation applied to determine the cut-off point is as follows.

Where

 $ZCU=critical\ point,\ as\ a\ function\ of\ cut-off\ score\ ZA\ and\ ZB=centroid\ number\ for\ group\ 1\ and\ 2$

NA and NB = number of group 1 and 2

The cut-off determination is based on the average value of the total Z-score from each bank, which is 0.0000. The standard for measuring whether banks are classified as conventional or Islamic is as follows⁴.

- When Z-score statistic <0.000, the bank is classified as a Islamic.
- When Z-score statistic >0.000, the bank is classified as conventional.

4. Empirical results

The descriptiv ⁴⁷ halysis of Islamic and conventional banking is shown in Table 1 with the following variables, Capital Adequacy Ratio, Income Before Tax and Interest, Non-Performing and Changing Loans, Company's Size, CPI and Kurs.

First, the statistical range of 15.69% and 151.92% in conventional and Islamic banking showed a significant difference in CAR. Similarly, the statistical range values differed significantly in EBTLLP, by 4.51% in conventional and 13.45% in Islamic banking. Furthermore, the statistical range of conventional (13.05%) and Islamic banking (61.20%) also showed significant differences in CLOANS. An insignificant comparison between both banking systems occurred in the NPL and firm size variables with a statistical comparison of 9.06%: 4.95% for NPL, and 6.29%: 5.82% for the Company's Size, respectively. Based on these values, there were significant differences between Islamic and conventional banking in the five determinants of earnings management. This showed that Islamic banking did not follow the business model of the conventional system in earnings management practices.

Second, a discriminant analysis was carried out by identifying variables significant in distinguishing earnings management between Islamic and conventional banking. From the equality test, the variable values, namely CAR, EBTLLP, CLOANS, Size, CPI, and kurs, were below 0.05. These test results showed differences between the groups or determining variables. However, the NPL variable had a significant value above 0.05, which means there was no difference between the groups, or the values are relatively the same.

Third, the MDA model was used to determine the discriminant equation of the selected variables, which started with the most significant F value. In the first stage, the calculated F-Size value was 0.573, while NPI, CLOANS, and EBTLLP were 0.471, 0.461, and 0.451. Finally, the cut-off value was determined based on the average value of the Z-Score. For the Multiple Discriminant Analysis (MDA) model, the Z-Score of each bank was 0,000 and categorized Islamic

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Table I	
Statistical	descriptive

Variable	Ν	Min	Max	24 ean		Std. Deviation
	Statistic	Statistic	Statistic	Statistic	Std. Error	Statistic
CAR	280	11%	26.21%	18.0035%	0.32691%	3.26912%
	280	11.15%	163.07%	21.6335%	1.71102%	17.11025%
EBTLLP	280	0.00%	4.81%	2.4570%	0.12965%	1.29651%
	280	-0.36%	13.08%	1.9395%	0.20215%	2.02150%
NPL	280	0.00%	9.46%	2.4524%	0.18672%	1.86721%
	280	0.02%	4.97%	2.0470%	0.15384%	1.53839%
CLOANS	280	0.00%	13.28%	4.6773%	0.28338%	2.83384%
	280	0.05%	61.26%	9.2239%	0.84000%	8.39995%
SIZE	280	7.7757	14.075	11.85359	.137108	1.3710764
	280	6.4953	12.325	9.598000	.125316	1.2531569
CPI	280	36%	63%	43,655%	0,606%	7,19%
	280	36%	63%	43,655%	0,606%	7,19%
KURS	280	1,20%	14.60%	8005%	0,284%	4755%
	280	1,20%	14,60%	8005%	0,284%	4755%

Source: the authors' calculations in Multiple Discriminant Analysis according to the statistical data.

or conventional-based system when it is < 0.000, or > 0.000.

Descriptive analysis of the comparison of CAR in conventional and Islamic banking. The CAR variable in conventional banks has minimum and maximum values of 11% and 26.21%, with an overall mean of 18,0035%. A high CAR value indicates that the level of earnings management in conventional banking is high. Meanwhile, an increased mean value indicates a rise in CAR, which increases earnings management practices.

Similarly, the CAR variable in Islamic banking shows a high value improved earnings management, determined from the maximum, minimum, and mean values of 163.07%, 11.15%, and 21.6335%. The standard deviation has a difference in the value of 19.84113%, where Islamic banks have a higher value of 17.11025% while conventional is 3.26912%. Therefore, it can be said that the data on CAR in Islamic banking is more diverse than conventional banks.

Descriptive analysis of the comparison of EBTLLP between nventional banks and Islamic banks. The EBTLLP variable in conventional banks has maximum, minimum, and mean values of 4.81%, 0.30%, and 2.4570%. Therefore, a high EBTLLP value indicates an increase in the level of earnings management in conventional banking. A high mean value indicates an increase in EBTLLP, which leads to a rise in earnings management practices.

The EBTLLP variable in Islamic banks has maximum, minimum, and mean values of 13.08%, -0.36%, and 1.9395%. The mean value of EBTLL ¹⁶. Islamic banks is lower than conventional, which indicates ⁴⁴ decrease in the level of earnings management in Islamic banking. The standard deviation has a difference in the value of 0.72499%, where Islamic banks are higher by 2.02150%, and conventional are 1.29651%

Therefore, the data on earnings management in Islamic banking is more diverse than conventional.

Descriptive analysis of the comparison of conventional and Islamic banking NPLs. The NPL variable in conventional banks has maximum, minimum, and mean values of 9.46%, 0.40%, and 2.4524%. Therefore, a high NPL value indicates that the level of earnings management in conventional banking is high. This means that an increase in value indicates a rise in NPL earnings management practices.

The NPL variable in Islamic banks has maximum, minimum, and mean values of 4.97%, 0.02%, and 2.0470%. Therefore, the decrease in NPL value indicate. ¹⁴ at the level of earnings management in Islamic banking is low. A decrease in mean value indicates an increase in NPL, which reduces earnings management practices. The standard deviation has a value difference of 0.32882%, higher in

⁴ There are numerous models for gauging earnings management, Multiple discriminant analysis have two main steps, the first step is the F-Test (Wilks Lambda) used to determine whether this model as a whole is significant or not. Second, assuming the F-Test shows significant value, then each independent variable is assessed for their differences. In the average group, this is used to classify the dependent variable.

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conventional banks by 1.86721% and 1.53839% in Islamic banks.

Descriptive analysis of the comparison of Change Loans between Inventional banks and Islamic banks. The CLOANS variable in conventional banks has maximum, minimum, and mean values of 13.28%, 0.23%, and 4.6773%. A decrease in CLOANS value indicates that the level of earnings management in conventional banking is low. A decrease in mean value indicates a decrease in CLOANS, which reduces earnings management practices.

The CLOANS variable in Islamic banks has maximum, minimum, and mean values of 61.26%, 0.05%, and 9.2239%. An increase in CLOANS value indicates a high level of earnings management in Islamic banking. In contrast, a rise in mean value indicates an increase in CLOANS, which improves earnings management practices. The standard deviation has a difference in the value of 5.56611%, where ¹⁹ lamic banks have a higher value of 8.39995% while the conventional is 2.83384%. Therefore, the data regarding change loan.¹⁴ Islamic banks is more diverse than conventional banks.

Descriptive analysis of siz ¹⁰ mparison between conventional banks. Descriptive analysis of siz ¹⁰ mparison between conventional banks and Islamic banks. Size in conventional banks has maximum, minimum, and mean values of 14,075, 7.7757, and 11,85359. A high size value indicates that the level of earnings management in conventional banking is low. Meanwhile, an increase in mean value indicates a rise in assets capable of ¹⁸ ducing earnings management practices.

The variable size in Islamic banks has maximum, minimum, and mean values of 12,325, 6.4953, and 9.598000. Therefore, a low size value indicates that the level of earnings management in banking is high. Meanwhile, a low mean value indicates a decrease in assets that increases earnings management practices. The standard deviation has a difference in the value of 0.11791952, where conventional banks have a higher value of 1.37107639 while Islamic is 1.25315687. Therefore, it can be said that the data on size in conventional banking is more diverse than in Islamic.

Descriptive analysis of the Corruption Perception Index (CPI) has maximum, minimum, mean, and standard deviation values of 63%, 36%, 43.65%, and 7.19%. Therefore, a high Corruption Perception Index (CPI) indicates that the level of earnings management in conventional banking is low.

Descriptive analysis of the exchange rate ha.³⁶ maximum value of a minimum value of 1.20% anc²⁸ h average value of 8.0057%, with a standard deviation of 4.755%. It is said that a high exchange rate indicates that the level of earnings management in conventional banking is getting higher.

Normality Test

The data shown in Table 2 are from the Kolmogorov-Smirnov normality test. The table shows that all independent variables have a significance value of 0.000, less than 0.05. This means that the independent variables are distributed to meet the assumptions used for discriminant analysis.

The dat.³³ hown in Table 3 are from the box's M test showed that the F value and significance were 691.726. and 0.000. The

Tab	ole	2	

One-sample	Kolmogorov-Smirnov	Test
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Ν		Unstandardized Residual 280
Normal	Mean	1.5000
Parameters ^{a,b}	Std. Deviation	.50090
Most Extreme Differences	Absolute	.341
	Positive	.341
	Negative	341
Test Statistic		.341
Asymp. Sig. (2-tailed)		.000 ^{c,d}

Source: the authors' calculations in Multiple Discriminant Analysis according to the statistical data

Table 3	
Box's M Test.	

8 st Results	
Box's M	691.726
Approx.	24.047
df1	28
df2	269301.779
Sig	000

Tests null hypothesis of equal population co-variance matrices. Source: the authors' calculations in Multiple Discriminant Analysis according to the statistical data.

significant value below 0.005 caused the co-variance matrix between the groups to violate the discriminant assumption However, the analysis of discriminant functions remained strong although the assumption of variance homogeneity did not correlate.

Table 4 shows that the values of CAR, EBTLLP, CLOANS and SIZE are significant, but NPL, CPI and KURS are not significant.

Table 5 shows that the function of the group centroid provided the information on the average discriminant score. The discriminant score for conventional banks was 1.129 and -1.129 for Islamic, therefore, there was a stipulated cut-off value. Meanwhile, the cut-off point of the discriminant function was calculated as follows:

Information:

 $ZCU = cut-off \ score$

ZA and ZB = centroid values for group 1 and 2

NA dan NB = number of group 1 and 2

From the MDA model, the cut-off determination was based on the average value of the Z-Score from each bank (0.000). The standards used to assess whether the bank was categorized as an Islamic or conventional bank were as follows:

When Z-Score was calculated as <0.000, the bank was classified as a Islamic.

When Z-Score was> 0.000, the bank was classed as a conventional.

Wilk's Lambda Test

Based on Wilk's Lambda test in Table 6, the Size, NPL, CLOANS,

l'able 4		
Discriminant	analy	/sis.

	8 sts of Equality of Group Means				
	Wilks' Lambda	F	df1	df2	Sig.
CAR	.974	7.321	1	278	.038
EBTLLP	.984	4.398	1	278	.032
NPL	.983	4.684	1	278	.095
CLOANS	.883	36.809	1	278	.000
SIZE	.583	198.857	1	278	.000
CPI	1.000	0.000	1	278	1.000
KURS	1.000	0.000	1	278	1.000

Source: the authors' calculations in Multiple Discriminant Analysis according to statistical data.

Tal	ole	5

The determination of cut-off value.

Functions at Group Centroids	
Bank System	Function
Conventional Bank	1
amic Bank	-1.129
Instandardized canonical discriminant functions evaluated at grouted at gr	p means

Source: the authors' calculations in Multiple Discriminant Analysis according to statistical data.

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and EBTLLP had a significance value of 0.000 less than 0.05. Therefore, all independent variables included in the MDA model had significant effects. Therefore, Size, NPL, CLOANS, EBTLLP, CPI, and Kurs significantly affected blamic and conventional banking earnings management.

A canonical correlation was used to measure the closeness of the relationship between the discriminant scores in the two groups.

Table 6 was used to determine the CR value of 0.741. When squared, it was found that 54.9% of variables explained the variation. Therefore, the EBTLUP NPL, CLOAN, and Size variables explained the difference Setween Islamic and conventional banking groups. The Equation Model from the Discriminant Analysis Function results is as follows:

$$\label{eq:2} \begin{split} Z = (-8.481) + 0.933 \mbox{ CAR} + 12.907 \mbox{ EBTLLP} + 36.002 \mbox{ NPL} - 4.986 \\ \mbox{ CLOANS} + 0.839 \mbox{ SIZE} - 0.021 \mbox{ CPI} - 0.072 \mbox{ KURS} \end{split}$$

Accuracy of Classification Prediction

Based on the table below, the prediction accuracy was 89%, while those for conventional and Islamic systems were 91% and 87%. Misclassification in the conventional banking was 9% and 13% for the Islamic system because the value of earnings management was initially classified as conventional banking. After being calculated turns it was in the Islamic system, and vice versa.

Table 8 shows that the control variable, namely size, was removed from the model to test the robustness. This indicates that the model's resilience shows significant results similar to the Size variable before and after being removed from the tested model. Based on the Robust test, the following results were obtained:

The variables CAR, EBTLLP, CLOANS, and SIZE are significant determinants of earnings management between Islamic and conventional banks. Meanwhile, NPL, CPI, and KURS are insignificant, and together these four variables are consistent as determinants of earnings management differences.

Based on the results shown In Table 7, the EBTLLP, NPL, CLOANS, and Size variables were used to determine Islamic and conventional banking earnings management. The EBTLLP, CLOANS, and Size variables had a higher value compared to Islamic banking, thereby making this variable a determinant in conventional banking earnings management. The CLOANS variable in Islamic banking was more significant than the conventional system. Meanwhile, the CAR variable did not enter or meet the requirements in the discriminant model.

The result is in line with Othman and Mersni's (2014) research which stated that CAR was significantly higher in Islamic than conventional banking with a positive earnings management relationship. Therefore, the higher the CAR value, the greater the manager performs earnings management and vice versa. However, this variable was not included in the function equation because it did not meet the requirements.

The findings showed that the average value of EBTLLP had a significant difference between Islamic and conventional banking.

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Table 7 Classification results

	Banking	System	Predic Group Memb	ceu	Total
	Conventi	onal	Islami	с	
Original 100%	Count	Conventional	91	9	
	Islamic	13	87	100	
	Conventi	onal	91.0	9.0	100.0
	Islamic	13.0	87.0	100.0	
Cross-validatedb 100%	Count	Conventional		89	11
	Islamic	13	87	100	
	Conventi	onal	89.0	11.0	100.0
	Islamic	13.0	87.0	100.0	

Source: the authors' calculations in Multiple Discriminant Analysis according to statistical data.

Fable 8		
Robustness	Test	results.

	Tests of Robustness test Equality of Group				
	Wilks' Lambda	F	df1	df	Sis
CA	.97	7.32		78	0.007
EBTLLP	4	1		78	0.037
NP	.98 4	44.68		78	0.162
CLOAN	.98	43		78	0.000
SIZ	3	198.85		78	0.000
^e C PI	1.00	7 0.00		78	1.000
KUE	0	0		78	1.000

Source: the authors' calculations in Multiple Discriminant Analysis according to statistical data.

The average value of EBTLLP in conventional was higher than in Islamic banking, which is in line with Lassoued et al.'s (2018) research. Dou, Ryan, and Zou (2018), Ceccobelli and Giosi (2019), and Bouvatier, Lepetit, and Strobel (2014) showed significant results between EBTLLP and CKPN. In Islamic banking, managers were not allowed to manipulate earnings because it misleads users of financial statements. EBTLLP had a positive relationship with earnings management. The higher the profit generated, the greater the manager performs earnings management, and vice versa.

The results show an insignificant difference between the NPLs in Islamic and conventional banking. Based on the descriptive analysis, the average value of NPL in conventional banking was higher than Islamic system. This was in line with the research by Elnahass al. (2018) and Othman and Mersni (2014), stating that NPL is less significant in Islamic banking. This variable has a positive relationship with earnings management, and the higher the NPL value, the greater the manager performs earnings management and vice versa.

Based on the results, there was ²⁶gnificant difference between the CLOANS in Islamic and conventional banking. This is in line with

> Sig 1.000 2.000 3.000 4.000

Table 6 Wilk's Lambda.							
Number of Exact	F	Lambda Statistic					
		df1	df2	df3	df	df1	
1	.573	1	198	147.458	1	198.000	
2	.471	1	198	110.702	2	197.000	
3	.461	1	198	76.465		196.000	
4	.451	1	198	59.346		195.000	
Eigenvalue	% of Variance	Cumulative	% Correlation				
1217a	100.0	100.0	0 741				

Source: the authors' calculations in Multiple Discriminant Analysis according to statistical data.

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the descriptive analysis, where the average value of CLOANS in Islamic banking was higher than a conventional system. According to Elnahass et al. (2018), changes in loans were less significant in Islamic banking. This was also strengthened by Quttainah et al. (2013), stating that CLOANS was significant for CKPN. The variable had ²¹ positive relationship with earnings management because the greater the value of CLOANS, the higher ²¹ arnings management, and vice versa.

This study focuses on investigating th ¹⁷ eterminants of earnings management between conventional and Islamic. It also determined the factor that makes the difference. Meanwhile, research in Jordan examines Islamic compliance on the profitability of Islamic banks, with both conducted using the control size variable. This research was equally carried out in developing countries. Research in Jordan does not include earnings management as a determinant of profitability Conversely, this study examines profitability as a determinar ¹⁷ earnings management between Islamic and conventional banks³² his study contributes to the growing body of literature on Islamic finance

The result **10** how that the Company's size significantly differed between both banking systems. The descriptive analysis indicated that conventional banking size's average value was more significant than the Islamic system. This wa²⁵ line with the study of Elnahass et al. (2018), Lassoued et al. (2018), and Ceccobelli and Giosi (2019) stated that earnings management was commonly used in conventional banking in large companies. Ahmed, Mohammed, and Adisa's (2014) research showed that Islamic banking practices low management. Therefore, the size variable had a negative relationship with earnings management because the larger the company's size, the lower the profit management, and vice versa.

The Corruption Perception Index (CPI) has a descriptive analysis value indicating that the average value of the Corruption Perception Index (CPI) of conventional banking is greater than the Islamic system. Thi ⁴² in line with Joseph Joseph et al. (2016) research, which stated that earnings management is generally used in conventional banking in large companies. Therefore, the Corruption Perception Index (CPI) variable ⁵³ as a negative relationship with earnings management. The greater the Corruption Perception Index (CPI) value, the lower the earnings management, and vice versa.

This descriptive analysis shows that the average value of the conventional banking exchange rate is greater than the sharia system. It is in line with Nadzifah and Sriyana's (2020) research that earnings management is generally used in conventional banking in large companies. Therefore, the exchange rate variable ⁶ as a negative relationship with earnings management. In addition, the more excellent the exchange rate value, the lower the earnings management, and vice versa.

5. Concluding remarks

In conclusion, the data obtained from 280 banking entities were analyzed in a discriminatory manner, and the findings show that EBTLLP, NPL, CLOANS, and Size are different variables that determine¹ arnings management between conventional and Islamic banks. The result showed that EBTLLP, CLOANS, and Size have significant differences instead of NPL, CPI, and KURS. From the discriminant equation, the most dominant average ratio in predicting differences in earnings management between banking groups are CAR, EBTLLP, Size, and Exchange rate, most widely used in determining earnings management in conventional banks, while CLOANS is used in the sharia system. Overall, this study finds that

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conventional banks dominate the Islamic system in conducting earnings management.

This study filled the gaps in the existing literatur³⁷, investigate the determinants of differences in Islamic and conventional earnings management. It is limited to the use of information panels covering only five years, which⁹ as insufficient to validate the results' consistency. Future studies need to ⁹ crease the period to provide confirmation of the findings and greater robustness of the data collection method. This study has laid the foundation for subsequent ones on the determinants of earnings management difference¹² etween Islamic and conventional banks. Therefore, it is better to add variables other than CAR, EBTLLP, NPL, CLOANS, CPI, and KURS in future studies. Furthermore, the Robustness test results are better to add a control and external variable other than size.

The results showed that there were simultaneous differences between Capital Adequacy Ratio, Income Before Tax and Interest, Non-Performing and Changing Loans, Company's Size, CPI, and Kurs a.⁶ eterminants of earnings management between Islamic and conventional banks. In addition, it was found that Kurs, Company's Size was the dominant variable determining the management differences. Based on Discriminant Analysis, there were significant differences in both banks' earnings management determinants. Meanwhile, the highest contribution of Changing Loan variable in determining earnings management in Islamic banks was also shown. Overall, this study found that conventional banks dominated the Islamic system in practicing earnings management.

Peer review

Peer review under responsibility of College of Management, National Cheng Kung University.

³⁰onflicts of interest

The authors declared no conflicts of interest.

References

- Abdelsalam, O., Dimitropoulos, P., Elnahass, M., & Leventis, S. (2016). Earnings management behaviors under different monitoring mechanisms: The case of islamic and conventional banks. *Journal of Economic Behavior & Organization*, 132, 155–173. https://doi.org/10.1016/j.jebo.2016.04.022
- Agoglia, C. P., Hatfield, R. C., & Lambert, T. A. (2015). Accounting, organizations and society audit team time reporting: An agency theory perspective. Accounting Organizations and Society. 44, 1–14. https://doi.org/10.1016/j.aos.2015.03.005
- Ahmed, A., Mohammed, A. Y., & Adisa, A. O. (2014). Loan loss provision and earnings management in Nigerian deposit money banks. *Mediterranean Journal of Social Sciences*, 5(17), 49–58. https://doi.org/10.5901/mjss 2014.v5n17p49
- Alhadab, M., & Al-Own, B. (2019). Earnings management and equity incentives: Evidence from the European banking industry. *International Journal of Accounting and Information Management*, 27(2), 244–261. https://doi.org/10.1108/ IIAIM-08-2017-0094
- Ali, U., Noor, M., Khurshid, M. K., & Mahmood, A. (2015). Impact of firm size on earnings management: A study of textile sector of Pakistan. SSRN Electronic Journal, 7(28), 47–56. https://doi.org/10.2139/ssrn.2698317
- Alshebmi, A. S., Mohammad Adam, M. H., Mustafa, A. M. A., Thomran, M., & Fathelbab, O. E. A. (2020). Assessing the non-performing loans and their effect on banks profitability: An empirical evidence from the Saudi Arabia banking sector. *International Journal of Innovation, Creativity and Change*, 11(8), 69–93.
- Beck, T., Demirgüç-Kunt, A., & Merrouche, O. (2013). Islamic vs. Conventional banking: Business model, efficiency and stability. *Journal of Banking & Finance*, 37(2), 433–447. https://doi.org/10.1016/j.jbankfin.2012.09.016
- Boulila Taktak, N., Ben Slama Zouari, S., & Boudriga, A. K. (2010). Do Islamic banks use loan loss provisions to smooth their results? *Journal of Islamic Accounting* and Business Research, 1(2), 114–127. https://doi.org/10.1108/ 17590811011086714
- Bouvatier, V., Lepetit, L., & Strobel, F. (2014). Bank income smoothing, ownership concentration and the regulatory environment. *Journal of Banking & Finance*, 41(1), 253–270. https://doi.org/10.1016/j.jbankfin.2013.12.001

Suripto

- Caporale, G. M., Alessi, M., Di Colli, S., & Lopez, J. S. (2018). Loan loss provisions and macroeconomic shocks: Some empirical evidence for Italian banks during the crisis. *Finance Research Letters*, 25(October), 239–243. https://doi.org/10.1016/ j.frl.2017.10.031
- Ceccobelli, G., & Giosi, A. (2019). Earnings management practices in the banking industry: The role of bank regulation and supervision. *Corporate Governance: Search for the Advanced Practices*, 6(1), 193–214. https://doi.org/10.22495/ cpr19p10
- Cevik, S., & Charap, J. (2015). The behavior of conventional and Islamic bank deposit returns in Malaysia and Turkey. *International Journal of Economics and Financial Issues*, 5(1), 111–124. https://doi.org/10.5089/9781455293704.001
- Chan, K., Li, F., & Lin, T. C. (2019). Earnings management and post-split drift. Journal of Banking & Finance, 101, 136–146. https://doi.org/10.1016/ j.jbankfin.2019.02.004
- Chan, C. H., & Lin, M. H. (2017). Imputation tax system, dividend payout, and investor behavior: Evidence from the Taiwan stock exchange. Asia Pacific Management Review, 22(3), 146–158. https://doi.org/10.1016/ j.apmrv.2016.12.002
- Curcio, D., & Hasan, I. (2015). Earnings and capital management and signaling: The use of loan-loss provisions by European banks. *The European Journal of Finance*, 21(1), 26–50. https://doi.org/10.1080/1351847X.2012.762408
- Dewi, I., & Indriani, A. (2016). Analisis faktor-faktor yang berpengaruh terhadap loan loss provisions (studi pada bank konvensional yang terdaftar di Direktori perbankan Indonesia periode 2011-2015) (Vol. 5, p. 4), 2011.
- Dou, Y., Ryan, S. G., & Zou, Y. (2018). The effect of credit competition on banks' loanloss provisions. Journal of Financial and Quantitative Analysis, 53(3), 1195–1226. https://doi.org/10.1017/S0022109018000054
- Dyreng, S. D., Mayew, W. J., & Williams, C. D. (2012). Religious social norms and corporate financial reporting. *Journal of Business Finance & Accounting*, 39(7–8), 845–875. https://doi.org/10.1111/j.1468-5957.2012.02295.x
- Elnahass, M., Izzeldin, M., & Abdelsalam, O. (2014). Loan loss provisions, bank valuations and discretion: A comparative study between conventional and islamic banks. *Journal of Economic Behavior & Organization*, 103(1), 160–173. https://doi.org/10.1016/j.jebo.2013.08.018
- Elnahass, M., Izzeldin, M., & Steele, G. (2018). Capital and earnings management: Evidence from alternative banking business models. *International Journal of* Accounting, 53(1), 20–32. https://doi.org/10.1016/j.intacc.2018.02.002
- Faradila, A., & Cahyati, A. (2013). Analisis manajemen laba pada perbankan syariah. None, 4(1), 57–74. https://doi.org/10.33558/jrak.v4i1.272
- Farook, S., Hassan, M. K., & Clinch, G. (2014). Islamic bank incentives and discretionary loan loss provisions. *Pacific-Basin Finance Journal*, 28, 152–174. https:// doi.org/10.1016/j.pacfin.2013.12.006
- Garsva, G., Skuodas, S., & Rudzioniene, K. (2012). Earnings management in European banks: The financial crisis and increased incentives for manipulation through loan loss provisions. *Transformations in Business and Economics*, 11(2 A), 504–526.
- Hermuningsih, S., Sari, P. P., & Rahmawati, A. D. (2020). The influence of third-party funds, non-performing loans (NPL) on credit distribution with profitability as intervening variable in commercial banks. *International Journal of Economics*, *Business and Accounting Research (IJEBAR)*, 4(2).
- Hidayati, A. N. (2014). Pengaruh Inflasi, Bl Rate, dan Kurs terhadap Profitabilitas Bank Syariah di Indonesia. An-Nisbah Journal Ekonomi Syariah, 72–97.
- HT, H. A., & Rama, A. (2018). Indeks kinerja perbankan syariah di Asia tenggara berdasarkan konsep maqâshid al-SyarîAh. Madania: Jurnal Kajian Keislaman, 22(1), 33–48. https://doi.org/10.29300/madania.v22i1.782
- Jaisinghani, D., & Kanjilal, K. (2017). Non-linear dynamics of size, capital structure and profitability: Empirical evidence from Indian manufacturing sector. Asia Pacific Management Review, 22(3), 159–165. https://doi.org/10.1016/ j.apmrv.2016.12.003
- Jensen, C., & Meckling, H. (1976). Theory of the firm: Managerial behaviour, agency costs and ownership structure. 3(4), 305–360.
- Joseph Joseph, C., Gunawan, J., Sawani, Y., Rahmat, M., Avelind Noyem, J., & Darus, F. (2016). A comparative study of anti-corruption practice disclosure among Malaysian and Indonesian Corporate Social Responsibility (CSR) best practice companies. *Journal of Cleaner Production*, 112, 2896–2906. https://doi.org/ 10.1016/j.jclepro.2015.10.091
- Kao, L, Chen, A., & Lu, C. S. (2018). Ex ante and ex post overvalued equities: The roles of corporate governance and product market competition. Asia Pacific Management Review, 23(3), 209–221. https://doi.org/10.1016/ j.apmrv.2017.07.002
- Kartikasari, D., & Merianti, M. (2016). The effect of leverage and firm size to profitability of public manufacturing companies in Indonesia. *International Journal* of Economics and Financial Issues, 6(2), 409–413.
- Lassoued, N., Attia, M. B. R., & Sassi, H. (2018). Earnings management in islamic and conventional banks: Does ownership structure matter? Evidence from the MENA region. Journal of International Accounting, Auditing and Taxation, 30, 85–105. https://doi.org/10.1016/j.intaccaudtax.2017.12.003. December 2017.

Asia Pacific Management Review xxx (xxxx) xxx

- Leventis, P. A., Da Sylva, T. R., Rajwans, N., Wasiak, S., McPherson, P. S., & Boulianne, G. L. (2011). Liquid facets-related (lqfr) is required for egg chamber morphogenesis during drosophila oogenesis. *PLoS One*, 6(10). https://doi.org/ 10.1371/journal.pone.0025466
- Lobo, G. J. (2017). Accounting research in banking a review. China Journal of Accounting Research, 10(1), 1–7. https://doi.org/10.1016/j.cjar.2016.09.003
- Mamipour, S., & Sepahi, M. (2015). Analysis of the behavior of amateur and professional investors' impact on the formation of bubbles in tehran stock market. *Iranian Economic Review*, 19(3), 341–358. https://doi.org/10.22059/ ier.2015.56855
- Mili, M., Sahut, J. M., Trimeche, H., & Teulon, F. (2017). Determinants of the capital adequacy ratio of foreign banks' subsidiaries: The role of interbank market and regulation. Research in International Business and Finance, 42, 442–453. https:// doi.org/10.1016/j.ribaf.2016.02.002
- Mohd Isa, M. Y., Voon Choong, Y., Yong Gun Fie, D., & Abdul Rashid, M. Z. H. (2018). Determinants of loan loss provisions of commercial banks in Malaysia. *Journal* of Financial Reporting & Accounting, 16(1), 24–48. https://doi.org/10.1108/JFRA-03-2015-0044
- Mozayani, A. H., & Parvizi, S. (2016). Exchange rate misalignment in oil exporting countries (OPEC): Focusing on Iran. *Iranian Economic Review*, 20(2), 261–276. https://doi.org/10.22059/ier.2016.58802
- Nadzifah, A., & Sriyana, J. (2020). Analisis pengaruh inflasi, kurs, Bi rate, PDB dan kinerja internal bank terhadap profitabilitas pada perbankan syariah dan konvensional. *Jurnal Manajemen Dan Bisnis Indonesia*, 6(1), 79–87. http://jurnal. unmuhjember.ac.id/index.php/JMBI/article/view/353.
 Othman, H. B., & Mersni, H. (2014). The use of discretionary loan loss provisions by
- Othman, H. B., & Mersni, H. (2014). The use of discretionary loan loss provisions by islamic banks and conventional banks in the Middle East region: A comparative study. Studies in Economics and Finance, 31(1), 106–128. https://doi.org/10.1108/ SEF- 02-2013-0017
- Packer, F., & Zhu, H. (2012). Loan loss provisioning practices of Asian banks. SSRN Electronic Journal, 1(375), 1–31. https://doi.org/10.2139/ssrn.2038215
- Pinto, I., & Ng Picoto, W. (2018). Earnings and capital management in European banks combining a multivariate regression with a qualitative comparative analysis. *Journal of Business Research*, 89(June), 258–264. https://doi.org/ 10.1016/j.jbusres.2017.12.034
- Prima Sakti, M. R., & Mohamad, A. (2018). Efficiency, stability and asset quality of islamic vis-à-vis conventional banks: Evidence from Indonesia. Journal of Islamic Accounting and Business Research, 9(3), 378–400. https://doi.org/10.1108/ JIABR-07- 2015-0031
- Quttainah, M. A., Song, L., & Wu, Q. (2013). Do islamic banks employ less earnings management? Journal of International Financial Management & Accounting, 24(3), 203–233. https://doi.org/10.1111/jifm.12011
- Rafay, A., Farid, S., Yasser, F., & Safdar, S. (2020). Social collateral and repayment performance: Evidence from islamic micro finance. *Iranian Economic Review*, 24(1), 41–74. https://doi.org/10.22059/ier.2020.74474
- Savitri, E., Andreas, A., Syahza, A., Gumanti, T. A., & Abdullah, N. H. N. (2020). Corporate governance mechanism and financial performance: Role of earnings management. *Entrepreneurship and Sustainability Issues*, 7(4), 3395–3409. https://doi.org/10.9770/jesi.2020.7.4(54
- Semaw Henock, M. (2019). Financial sustainability and outreach performance of saving and credit cooperatives: The case of Eastern Ethiopia. Asia Pacific Management Review, 24(1), 1–9. https://doi.org/10.1016/j.apmrv.2018.08.001
- Shawtari, F. A., Ariff, M., & Abdul Razak, S. H. (2019). Efficiency and bank margins: A comparative analysis of islamic and conventional banks in Yemen. Journal of Islamic Accounting and Business Research, 10(1), 50–72. https://doi.org/10.1108/ JIABR-07- 2015-0033
- Shu, P. G., Yeh, Y. H., Chiu, S. B., & Yang, Y. W. (2015). Board external connectedness and earnings management. Asia Pacific Management Review, 20(4), 265–274. https://doi.org/10.1016/j.apmrv.2015.03.003
- Soedarmono, W., Pramono, S. E., & Tarazi, A. (2017). The procyclicality of loan loss provisions in islamic banks. Research in International Business and Finance, 39, 911–919. https://doi.org/10.1016/j.ribaf.2016.05.003
- Suripto, S., & Supriyanto, S. (2021). Characteristics of banks as determinants of profit management for Islamic and conventional banks in ASEAN. Growing Science, 7(5), 1179–1188. https://doi.org/10.5267/j.ac.2021.2.020
- Suzuki, Y., Uddin, S. M. S., & Sigit, P. (2019). Do islamic banks need to earn extra profits?: A comparative analysis on banking sector rent in Bangladesh and Indonesia. Journal of Islamic Accounting and Business Research, 10(3), 369–381. https://doi.org/10.1108/JIABR-01-2017-0003
- Swamy, V. (2017). Determinants of bank asset quality and profitability: An empirical assessment. Applied Economics Quarterly, 63(1), 97–135. https://doi.org/ 10.3790/aeq.63.1.97
- Wijayanti, R., Diyanty, V., & Laela, S. F. (2020). Education strategy misfit, board effectiveness and Indonesian Islamic bank performance. *Journal of Islamic Accounting and Business Research*, 11(3), 929–944. https://doi.org/10.1108/JIABR-04-2017-0052

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