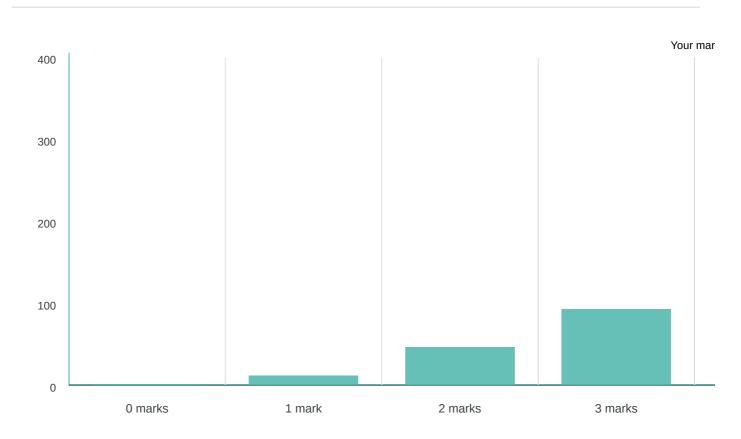
Quiz 2

Student Mark Distribution



Your Individual Results

Deadline	Friday, 11 October 2019 at 11:59PM
Latest Submission	Friday, 11 October 2019 at 11:30AM
Raw Mark	4.00/4.00 (100.00%)
Late Penalty	N/A
Final Mark	4.00/4.00 (100.00%)

Question 1 (1 mark)

Use the following tables to answer Questions 1, 2, and 3.

Account table instance:

branchName	account	No balance
	-+	+
UNSW	U-245	1000
UNSW	U-291	2000
Randwick	R-245	20000
Coogee	C-123	15000
Coogee	C-124	25000
Clovelly	Y-123	1000
Maroubra	M-222	5000
Maroubra	M-225	12000

Owner table instance:

account customer	r	
	-	
U-245 12345		
U-291 12345		
U-291 12666		
R-245 12666		
C-123 32451		
C-124 22735		
Y-123 76543		
M-222 92754		
M-225 12345		

Q. What query would produce a count of how much money (total balance) is held in each branchName (suburb)?

(a) O	SELECT a1.branchName, SUM(a1.balance) FROM Account a1, Account a2 WHERE a1.branchName = a2.branchName
(b) O	SELECT a1.branchName, COUNT(balance) FROM Account a1, Account a2 WHERE a1.branchName = a2.branchName
(c) ®	SELECT branchName, SUM(balance) FROM Account GROUP BY branchName
(d) O	SELECT branchName, COUNT(balance) FROM Account GROUP BY branchName
(e) O	None of the above queries solves the problem.

✓ Your response was correct.

Mark: 1.00

Question 2 (1 mark)

Use the tables in Question 1 to answer this question.

Q. What query would successfully remove all rows in Account whose branchName's start with C and whose balances are over 10000? You can assume that the tables have been defined in such a way that deleting from Accounts will not be prevented by the existence of the account in the Owner table.

(a) O	DELETE FROM Account WHERE branchName LIKE '%C' WHERE balance > 10000
(b) O	DELETE FROM Account WHERE branchName LIKE '%C%' AND balance >= 10000
(c) O	DELETE FROM Account WHERE branchName LIKE 'C%' WHERE balance >= 10000
(d) ®	DELETE FROM Account WHERE branchName LIKE 'C%' AND balance > 10000
(e) O	None of the above SQL statements solves the problem.

✓ Your response was correct.

Mark: 1.00

Question 3 (1 mark)

Use the tables in Question 1 to answer this question.

Q. What queries (may be multiple) would produce tuples of customer IDs and account balance, for all customers with accounts with balances less than 15,000? Note that there is one tuple for each account, so a customer may appear in multiple tuples if they own multiple accounts.

(a) 🗹	SELECT o.customer, a.balance FROM Account as a, Owner as o WHERE a.accountNo = o.account AND a.balance < 15000
(b) -	SELECT customer, balance FROM Account JOIN Owner WHERE balance < 15000
(c) 🖋	SELECT o.customer, a.balance FROM Account as a JOIN Owner as o ON a.accountNo = o.account AND a.balance < 15000

SELECT o.customer, a.balance
FROM Account as a, Owner as o
OUTER LEFT JOIN ON a.accountNo = o.account
AND a.balance < 15000

✓ Your response was correct.

Mark: max(0.50 + 0.50, 0) = 1.00

Question 4 (1 mark)

Use the following tables to answer Question 4.

Student table instance:

zid name	. •
1234567 Harry Roo 2345678 Chen Zhang 3456789 Patricia Li	21 25

Class table instance:

```
code | name
-----+-----
3311 | Databases with the Shepherd
6441 | Security learning
1521 | MIPS and fun
```

Enrolment table instance:

student class mark	
1234567 3311 NULL	
2345678 3311 76	
2345678 1521 77	
2345678 6441 77	
1234567 1521 NULL	

Q. Which of the following (may be multiple) creates a view that produces a table of tuples containing (student name, class name, mark) for all students and all classes they've taken.

(a)	CREATE VIEW all_marks(student,course,mark) AS SELECT name, name, mark FROM Class as c JOIN Student as s ON s.zid = c.code
(b) 🗹	CREATE VIEW all_marks(student,course,mark) AS SELECT s.name, c.name, e.mark FROM Enrolment as e JOIN Class as c ON c.code = e.class JOIN Student as s ON s.zid = e.student

(c) 🗹	CREATE VIEW all_marks(student,course,mark) AS SELECT s.name, c.name, e.mark FROM Student as s JOIN Enrolment as e ON s.zid = e.student JOIN Class as c ON c.code = e.class
(d)	CREATE VIEW all_marks(student,course,mark) AS SELECT * FROM Enrolment as e JOIN Class as c ON c.code = e.class JOIN Student as s ON s.zid = e.student WHERE s.name, c.name, e.mark

✓ Your response was correct.

Mark: max(0.50 + 0.50, 0) = 1.00