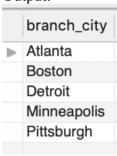
Report

Question 1: Retrieve all the distinct cities in the branch relation.

Sql query

SELECT distinct branch\_city FROM branch;

## Output:



Question 2: Give full details of all the customers.

Sql query

SELECT \* FROM Customer;

	•		
	customer_name	customer_stre	customer_city
▶	Adams	Spring	Oklahoma
	Brooks	Broad	Atlanta
	Curry	North	Detroit
	Glenn	Sand Hill	Charlotte
	Green	Lavista	Madison
	Hayes	Main	Louisville
	Johnson	Buford	Pittsburgh
	Jones	Main	Louisville
	Lindsay	Park	Oklahoma
	Smith	North	Detroit
	Turner	Browns	Madison
	Williams	Cascade	Portland

Question 3: Find the account numbers of those balances where the balance is greater than

40000.

Sql query

SELECT account\_number FROM account WHERE balance > 40000;

## Output:

	account_numb
▶	A-101
	A-201
	A-215
	A-217
	A-222

Question 4: Retrieve the customer names and streets of those customer names that start with

'G'.

Sql query

SELECT customer\_name, customer\_street FROM customer WHERE customer\_name like "G%";

### Output:

	customer_name	ame customer_stre	
▶	Glenn	Sand Hill	
	Green	Lavista	

Question 5: Get the names of branches those are either located in 'Boston' or in 'Pittsburgh'.

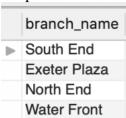
Sql query

SELECT branch\_name

FROM branch

WHERE branch\_city = "boston" or branch\_city = "pittsburgh";

### Output:

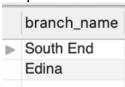


Question 6: Find the names of branches of those assets are between 200000 and 700000.

Sql query

SELECT branch\_name FROM branch WHERE assets between 200000 and 700000;

### Output:



Question 7: Get the account numbers and branch numbers in the descending order of the

balance.

Sql query

SELECT account\_number, branch\_number FROM account ORDER BY balance desc;

	•	
	account_numb	branch_number
$\triangleright$	A-201	B-101
	A-217	B-101
	A-215	B-201
	A-222	B-501
	A-101	B-102
	A-102	B-202
	A-305	B-203

# Question 8: Retrieve all the details in loan relation with 15% rise in its amount. Rename amount

column with new\_amount.

Sql query

SELECT loan\_number,branch\_number,amount\*1.15 AS new\_amount FROM loan;

### Output:

	loan_number	branch_number	new_amount
▶	L-11	B-203	103500.0000
	L-14	B-102	172500.0000
	L-15	B-202	172500.0000
	L-16	B-202	149500.0000
	L-17	B-102	115000.0000
	L-23	B-501	230000.0000
	L-93	B-201	57500.0000

# Question 9: Find the total number of customers.

Sql query

SELECT count(\*)
FROM customer;

### Output:



Question 10: Find the maximum and minimum assets of branches.

Sql query:

SELECT max(assets), min(assets) FROM branch;

		max(assets)	min(assets)
Ī	▶	9000000.00	300000.00

Question 11: Find the average assets of branches in 'Atlanta'.

Sql query:

SELECT avg(assets)
FROM branch
WHERE branch\_city = "Atlanta";

### Output:

avg(assets)

8050000.000000

Question 12: For each branch, get the branch number and the total amount (sum) borrowed as

loans.

Sql query:

SELECT branch\_number, sum(amount) FROM loan GROUP BY branch\_number;

	branch_number	sum(amount)
▶	B-102	250000.00
	B-201	50000.00
	B-202	280000.00
	B-203	90000.00
	B-501	200000.00

Question 13: For each branch, such that the total amount borrowed is greater than 150000 get the branch number and the minimum amount borrowed.

Sql query:

SELECT branch\_number, min(amount)
FROM loan
WHERE amount > 150000
GROUP BY branch\_number;

#### Output:



Question 14: Get the branch number which issue a loan to the customer 'Hayes'.

Sql query:

SELECT branch\_number

FROM loan AS l, borrower AS b, customer AS c

WHERE b.loan\_number = l.loan\_number AND b.customer\_name = c.customer\_name AND b.customer\_name = "Hayes";

### Output:



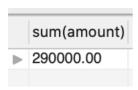
Question 15: Find the total amount of loans borrowed by the customer 'Smith'.

Sql query:

SELECT sum(amount)

FROM loan AS l, borrower AS b, customer AS c

WHERE b.loan\_number = l.loan\_number AND b.customer\_name = c.customer\_name AND b.customer name = "Smith";



Question 16: Find the balance(s) in the account(s) of the customer who has borrowed the loan L-14.

Sql query:

SELECT balance
FROM account AS a, loan AS l
WHERE a.branch\_number = l.branch\_number AND loan\_number = "L-14";

### Output:



Question 17: Get the cities of the customers who have taken more than one loan.

Sql query:

SELECT branch\_city
FROM branch AS b, loan AS 1
WHERE b.branch\_number = l.branch\_number
GROUP BY branch\_city
HAVING count(\*) > 1

