Assignment No.5

Name:- Shailesh Pawar

PRN:-123B1B230

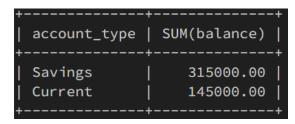
Solve following queries:

1. Retrieve the total balance for each account type.

Code:-

SELECT account_type, SUM(balance) FROM accounts_230 GROUP BY account_type;

Output:-



2. Count the number of accounts in each branch.

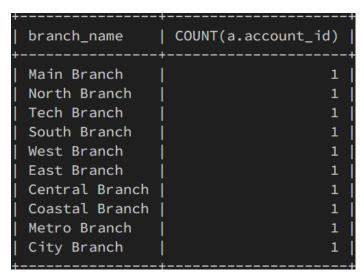
Code :-

SELECT b.branch_name, COUNT(a.account_id)
FROM branches_230 b

LEFT JOIN accounts_230 a ON b.branch_id = a.branch_id

GROUP BY b.branch_name;

Output:-

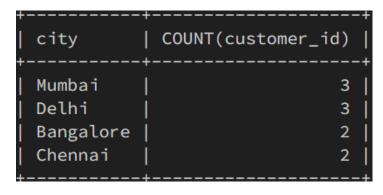


3. Find the number of customers in each city.

Code:-

SELECT city, COUNT(customer_id) FROM customers_230 GROUP BY city;

Output:-

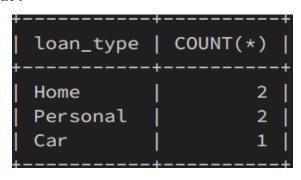


4. Show the number of loans approved per loan type.

Code:-

SELECT loan_type, COUNT(*) FROM loans_230
WHERE status = 'Approved'

Output:-

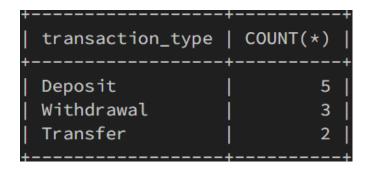


5. Find the total number of transactions for each transaction type.

Code:-

SELECT transaction_type, COUNT(*) FROM transactions_230 GROUP BY transaction type;

Output:-



6. Show the customers who do not have a loan.

Code:-

```
SELECT c.* FROM customers_230 c

LEFT JOIN loans_230 l ON c.customer_id = l.customer_id

WHERE l.loan_id IS NULL;
```

Output:-

7. Retrieve customers who have accounts in more than one branch.

Code :-

```
SELECT c.name, COUNT(DISTINCT a.branch_id)
FROM customers_230 c

JOIN accounts_230 a ON c.customer_id = a.customer_id

GROUP BY c.customer_id, c.name

HAVING COUNT(DISTINCT a.branch_id) > 1;
```

Output:-

8. Find all accounts that have not had any deposits in the last 3 months.

Code:-

```
SELECT a.* FROM accounts_230 a

LEFT JOIN transactions_230 t ON a.account_id = t.account_id

AND t.transaction_type = 'Deposit'

AND t.transaction_date > '2024-12-25'
```

WHERE t.transaction_id IS NULL;

Output:-

+ account_id +	+ customer_id +	+ balance +	account_type	++ branch_id +
102	2	30000.00	Current	2
104	4	15000.00	Current	3
106	6	25000.00	Current	4
108	8	35000.00	Current	7
110	10	40000.00	Current	8
+	+	++		++

9. Display the account types where the total balance is below ₹25,000.

Code:-

SELECT account_type, SUM(balance) FROM accounts_230 GROUP BY account_type

HAVING SUM(balance) < 25000;

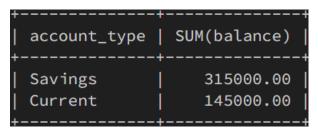
Output :-

10. Find the total balance per account type where the balance is above ₹50,000.

Code :-

SELECT account_type, SUM(balance) FROM accounts_230
GROUP BY account_type
HAVING SUM(balance) > 50000;

Output:-



11. Retrieve the count of transactions made on dates where more than 5 transactions occurred.

Code :-

SELECT transaction date, COUNT(*) FROM transactions 230

GROUP BY transaction_date
HAVING COUNT(*) > 5;

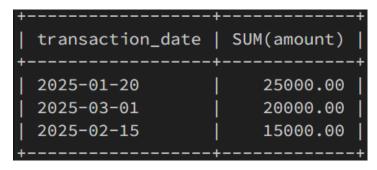
Output:-

12. Find the top 3 transaction days with the highest total transaction amount.

Code :-

SELECT transaction_date, SUM(amount) FROM transactions_230
GROUP BY transaction_date
ORDER BY SUM(amount) DESC
LIMIT 3;

Output:-



13. Find customers who have a loan but no account in the bank.

Code:-

```
SELECT c.* FROM customers_230 c

JOIN loans_230 l ON c.customer_id = l.customer_id

LEFT JOIN accounts_230 a ON c.customer_id = a.customer_id

WHERE a.account_id IS NULL;
```

Output :-

```
OK, 0 records retrieved in 0.778ms
```