**ASSIGNMENT -1 (BANKING SYSTEM)**

**Tasks 3:** **Subquery and its type:**

1. SELECT c.customer\_id, c.first\_name, c.last\_name, a.account\_id, a.balance

FROM customers c JOIN accounts a ON c.customer\_id = a.customer\_id

WHERE a.balance = (SELECT MAX(balance) FROM accounts);

2. SELECT customer\_id, AVG(balance) AS avg\_balance FROM accounts

WHERE customer\_id

IN ( SELECT customer\_id FROM accounts

GROUP BY customer\_id

HAVING COUNT(account\_id) > 1)

GROUP BY customer\_id;

3. SELECT account\_id, transaction\_id, amount FROM transactions

WHERE amount > (SELECT AVG(amount) FROM transactions);

4. SELECT customer\_id

FROM customers

WHERE customer\_id NOT IN (SELECT DISTINCT customer\_id FROM accounts a JOIN transactions t ON a.account\_id = t.account\_id);

5. SELECT SUM(balance) AS total\_bal

FROM accounts

WHERE account\_id NOT IN (SELECT DISTINCT account\_id FROM transactions);

6. SELECT transaction\_id, account\_id, amount, transaction\_date FROM transactions

WHERE account\_id IN (

SELECT account\_id FROM accounts

WHERE balance = (SELECT MIN(balance) FROM accounts) );

7. SELECT customer\_id FROM accounts

GROUP BY customer\_id

HAVING COUNT(DISTINCT account\_type) > 1;

8. SELECT account\_type,

(COUNT(\*) \* 100.0) / (SELECT COUNT(\*) FROM accounts) AS per

FROM accounts

GROUP BY account\_type;

9. SELECT transaction\_id, account\_id, amount, transaction\_date FROM transactions

WHERE account\_id IN (SELECT account\_id FROM accounts WHERE customer\_id = 7);

10, SELECT account\_type,

(SELECT SUM(balance) FROM accounts a2 WHERE a2.account\_type = a1.account\_type) AS total\_bal

FROM accounts a1

GROUP BY account\_type;