**[Task-2]**

**INSERT**

**1] INSERT INTO Customers VALUES**

(101,'Ram','Kumar','2002-03-09','ram23@gmail.com',784556965,'Chennai'),

(102,'Selva','Kumar','2003-02-14','selvam23@gmail.com',987556965,'Chennai'),

(103,'Som','RAJ','2004-224','som27@gmail.com',9875678965,'Madurai'),

(104,'Niki','Dev','2005-05-14','niki23@gmail.com',777556965,'Chennai'),

(105,'George','Sid','2003-02-14','geo23@gmail.com',997556965,'Kerela');

**INSERT INTO Customers VALUES**

(106, 'Anita', 'Kumar', '1998-07-12', 'anita98@gmail.com', 9876543210, 'Bangalore'),

(107, 'Rahul', 'Sharma', '2000-11-25', 'rahul2000@gmail.com', 8765432109, 'Mumbai'),

(108, 'Priya', 'Rao', '1995-03-18', 'priya95@gmail.com', 9123456789, 'Hyderabad'),

(109, 'Vikram', 'Menon', '1992-09-05', 'vikram92@gmail.com', 9988776655, 'Kochi'),

(110, 'Meera', 'Das', '1997-01-30', 'meera97@gmail.com', 9090909090, 'Pune'),

(201,’John’, ’Doe’, ’ 1995-06-15’ , ‘ john.doe@gmail.com’, 9876543210 ,’ New York’ ),

( 202, ‘ Alice ‘ , ‘ Smith’ , ‘ 1990-09-25’, ‘ alice.smith@gmail.com’ ,9123456789, ‘ Los Angeles’);

mysql> Select \* from Customers;

**+-------------+------------+-----------+------------+-----------------------+--------------+-------------+**

**| customer\_id | first\_name | last\_name | DOB | email | phone\_number | address |**

**+-------------+------------+-----------+------------+-----------------------+--------------+-------------+**

**| 101 | Ram | Kumar | 2002-03-09 | ram23@gmail.com | 784556965 | Chennai |**

**| 102 | Selva | Kumar | 2003-02-14 | selvam23@gmail.com | 987556965 | Chennai |**

**| 103 | Som | RAJ | 2004-02-24 | som27@gmail.com | 9875678965 | Madurai |**

**| 104 | Niki | Dev | 2005-05-14 | niki23@gmail.com | 777556965 | Coimbatore |**

**| 105 | George | Sid | 2003-02-14 | geo23@gmail.com | 997556965 | Kerela |**

**| 106 | Anita | Kumar | 1998-07-12 | anita98@gmail.com | 9876543210 | Bangalore |**

**| 107 | Rahul | Sharma | 2000-11-25 | rahul2000@gmail.com | 8765432109 | Mumbai |**

**| 108 | Priya | Rao | 1995-03-18 | priya95@gmail.com | 9123456789 | Hyderabad |**

**| 109 | Vikram | Menon | 1992-09-05 | vikram92@gmail.com | 9988776655 | Kochi |**

**| 110 | Meera | Das | 1997-01-30 | meera97@gmail.com | 9090909090 | Pune |**

**| 201 | John | Doe | 1995-06-15 | john.doe@gmail.com | 9876543210 | New York |**

**| 202 | Alice | Smith | 1990-09-25 | alice.smith@gmail.com | 9123456789 | Los Angeles |**

**INSERT INTO Accounts** (account\_id, customer\_id, account\_type, balance) **VALUES**

(201, 101, 'savings', 25000),

(202, 102, 'current', 50000),

(203, 103, 'zero\_balance', 0),

(204, 104, 'savings', 15000),

(205, 105, 'current', 75000),

(206, 106, 'savings', 42000),

(207, 107, 'zero\_balance', 0),

(208, 108, 'current', 62000),

(209, 109, 'savings', 34000),

(210, 110, 'zero\_balance', 0),

( 50001, 201, ’savings’ , 5500),

(50002, 202 , ’current’ , 10000);

mysql> Select \* from Accounts;

**+------------+-------------+--------------+---------+**

**| account\_id | customer\_id | account\_type | balance |**

**+------------+-------------+--------------+---------+**

**| 201 | 101 | savings | 25000 |**

**| 202 | 102 | current | 50000 |**

**| 203 | 103 | zero\_balance | 0 |**

**| 204 | 104 | savings | 15000 |**

**| 205 | 105 | current | 75000 |**

**| 206 | 106 | savings | 42000 |**

**| 207 | 107 | zero\_balance | 0 |**

**| 208 | 108 | current | 62000 |**

**| 209 | 109 | savings | 34000 |**

**| 210 | 110 | zero\_balance | 0 |**

**| 50001 | 201 | savings | 5500 |**

**| 50002 | 202 | current | 10000 |**

**+------------+-------------+--------------+---------+**

**INSERT INTO Transactions** (transaction\_id, account\_id, transaction\_type, amount, transaction\_date) **VALUES**

(301, 201, 'deposit', 10000.00, '2025-03-01'),

(302, 202, 'withdrawal', 5000.00, '2025-03-02'),

(303, 203, 'deposit', 15000.50, '2025-03-03'),

(304, 204, 'transfer', 7500.75, '2025-03-04'),

(305, 205, 'withdrawal', 2000.00, '2025-03-05');

**INSERT INTO Transactions** (transaction\_id, account\_id, transaction\_type, amount, transaction\_date) **VALUES**

(306, 206, 'deposit', 22000.00, '2025-03-06'),

(307, 207, 'withdrawal', 3500.25, '2025-03-07'),

(308, 208, 'transfer', 12000.00, '2025-03-08'),

(309, 209, 'deposit', 18000.00, '2025-03-09'),

(310, 210, 'withdrawal', 6000.00, '2025-03-10');

(311, 50001, ‘deposit’ , 3000.00, ‘2025-04-08’)

(312 ,50002, ‘transfer’ , 4000.00, ‘ 2025-07-18’ ); |

mysql> select \* from transactions;

**+----------------+------------+------------------+----------+------------------+**

**| transaction\_id | account\_id | transaction\_type | amount | transaction\_date |**

**+----------------+------------+------------------+----------+------------------+**

**| 301 | 201 | deposit | 10000.00 | 2025-03-01 |**

**| 302 | 202 | withdrawal | 5000.00 | 2025-03-02 |**

**| 303 | 203 | deposit | 15000.50 | 2025-03-03 |**

**| 304 | 204 | transfer | 7500.75 | 2025-03-04 |**

**| 305 | 205 | withdrawal | 12000.00 | 2025-03-05 |**

**| 306 | 206 | deposit | 22000.00 | 2025-03-06 |**

**| 307 | 207 | withdrawal | 3500.25 | 2025-03-07 |**

**| 308 | 208 | transfer | 12000.00 | 2025-03-08 |**

**| 309 | 209 | deposit | 18000.00 | 2025-03-09 |**

**| 310 | 210 | withdrawal | 6000.00 | 2025-03-10 |**

**| 311 | 50001 | deposit | 3000.00 | 2025-04-08 |**

**| 312 | 50002 | transfer | 4000.00 | 2025-07-18 |**

**+----------------+------------+------------------+----------+------------------+**

**Tasks 2: Select, Where, Between, AND, LIKE:**

1. Write a SQL query to retrieve the name, account type and email of all customers .

SELECT customer\_id, first\_name, last\_name, email FROM Customers;

SELECT customer\_id, account\_type FROM Accounts;

2. Write a SQL query to list all transaction corresponding customer.

SELECT \* FROM Transactions WHERE account\_id IN (SELECT account\_id FROM Accounts WHERE customer\_id = 103);

3. Increase the balance of a specific account

UPDATE Accounts SET balance = balance + 500 WHERE account\_id = 203;

4.Combine first and last names of customers as full\_name

SELECT CONCAT(first\_name, ' ', last\_name) AS full\_name FROM Customers;

5.Remove accounts with a balance of zero where the account type is savings

DELETE FROM Accounts WHERE balance = 0 AND account\_type = 'savings';

6. Find customers living in a specific city

SELECT \* FROM Customers WHERE address = 'Kochi';

7.Get the account balance for a specific account

SELECT balance FROM Accounts WHERE account\_id = 204;

8. List all current accounts with a balance greater than 1,000

SELECT \* FROM Accounts WHERE account\_type = 'current' AND balance > 1000;

9. Retrieve all transactions for a specific account

SELECT \* FROM Transactions WHERE account\_id = 207;

10. Calculate interest accrued on savings accounts (5%)

SELECT account\_id, balance, (balance \* 0.05) AS interest\_accrued

FROM Accounts

WHERE account\_type = 'savings';

11. Identify accounts where the balance is less than a specified overdraft limit (e.g., -500)

SELECT \* FROM Accounts WHERE balance < -500;

12. Find customers not living in a specific city

SELECT \* FROM Customers WHERE address NOT IN ('Los Angeles', 'New York', 'Chicago');