## **Banking System**

## Tasks 1: Database Design:

1. Create the database named "HMBank"

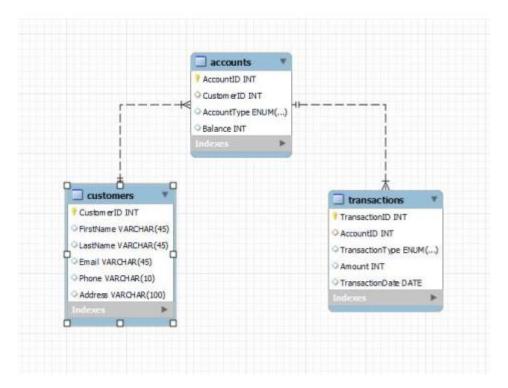
```
mysql> CREATE DATABASE HMBank;
Query OK, 1 row affected (0.02 sec)
mysql> use HMBank;
Database changed
```

2. Define the schema for the Customers, Accounts, and Transactions tables based on the provided schema.

```
mysql> CREATE TABLE Customers (
    -> customer_id INT PRIMARY KEY,
    -> first_name VARCHAR(255),
    -> last_name VARCHAR(255),
    -> DOB DATE,
    -> email VARCHAR(255),
    -> phone_number VARCHAR(20),
    -> address VARCHAR(255)
    -> );
Query OK, θ rows affected (0.05 sec)
```

```
mysql> CREATE TABLE Accounts (
    -> account_id INT PRIMARY KEY,
    -> customer_id INT,
    -> account_type VARCHAR(50),
    -> balance DECIMAL(10, 2),
    -> FOREIGN KEY (customer_id) REFERENCES Customers(customer_id)
    -> );
Query OK, 0 rows affected (0.07 sec)
```

4. Create an ERD (Entity Relationship Diagram) for the database.



- 6. Write SQL scripts to create the mentioned tables with appropriate data types, constraints, and relationships.
- Customers
- Accounts
- Transactions

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

- 1. Insert at least 10 sample records into each of the following tables.
- Customers
- Accounts
- Transactions

```
mysql> INSERT INTO Customers(customer_id, first_name, last_name, DOB, email, phone_number, address)

-> VALUES (1, 'James', 'Kelp', '2022-12-11', 'jameskelp@gmail.com', 1111111111, 'Delhi, India'),

-> (2, 'Kim', 'Kardarsian', '2022-11-01', 'kimkardasian@gmail.com', 2222222222, 'Kolkata, India'),

-> (3, 'Priya', 'Sharma', '2023-12-01', 'priyasharma@gmail.com', 33333333333, 'Kolkata, India'),

-> (4, 'Krisha', 'Priya', '2021-09-02', 'krishapriyaa@gmail.com', 444444444444, 'Mumbai, India'),

-> (5, 'Sneha', 'Roy', '2020-10-07', 'Sneharoy12@gmail.com', 55555555555, 'Telangana, India'),

-> (6, 'Patrik', 'Scott', '2010-11-03', 'patrikscott@gmail.com', 666666666666, 'Tamil Nadu, India'),

-> (7, 'Pane', 'Miller', '2011-09-05', 'millerpane@gmail.com', 777777777777, 'Orissa, India'),

-> (8, 'John', 'Kipler', '2012-08-02', 'kiplerjohn@gmail.com', 88888888888, 'Kolkata, India'),

-> (9, 'Mikal', 'John', '2013-08-01', 'mikaljohn@gmail.com', 99999999999, 'Jammu & Kashmir, India'),

-> (10, 'Selina', 'Pick', '2021-08-11', 'selinapickk@gmail.com', 0000000000000, 'Jammu & Kashmir, India');

Query OK, 10 rows affected (0.01 sec)

Records: 10 Duplicates: 0 Warnings: 0
```

```
mysql> INSERT INTO Accounts(account_id, customer_id, account_type, balance)
       -> VALUES (001, 1, 'savings', 30000),
       -> (002, 2, 'current', 20000),
       -> (003, 3, 'savings', 30000),
       -> (004, 4, 'current', 40000),
       -> (005, 5, 'savings', 40000),
-> (006, 6, 'savings', 70000),
       -> (007, 7, 'current', 79000),
       -> (008, 8, 'savings', 80000),
       -> (009, 9, 'current', 70000),
       -> (010, 10, 'savings', 50000);
 Query OK, 10 rows affected (0.01 sec)
 Records: 10 Duplicates: 0 Warnings: 0
mysql> INSERT INTO Transactions(transaction_id, account_id, transaction_type, amount, transaction_date)
    -> VALUES(111, 001, 'deposit', 300, '2022-10-12'),
     -> (112, 002, 'withdraw', 200, '2012-11-12'),
    -> (112, 002, 'Withdraw', 200, '2012-11-12'),
-> (113, 003, 'deposit', 400, '2022-10-09'),
-> (114, 004, 'Withdraw', 500, '2022-10-09'),
-> (116, 006, 'deposit', 200, '2022-10-01'),
-> (117, 007, 'Withdraw', 800, '2012-11-09'),
-> (119, 009, 'deposit', 900, '2022-08-09'),
-> (120, 010, 'Withdraw', 1000, '2022-11-09');
Query OK, 8 rows affected (0.01 sec)
Records: 8 Duplicates: 0 Warnings: 0
mysql> INSERT INTO Transactions(transaction_id, account_id, transaction_type, amount, transaction_date)
     -> VALUES(115, 005, 'deposit', 900, '2012-11-12'),
-> (118, 008, 'withdraw', 600, '2012-11-09');
Query OK, 2 rows affected (0.00 sec)
Records: 2 Duplicates: 0 Warnings: 0
mysql> SELECT * FROM Customers;
  customer_id | first_name | last_name
                                                         | email
 | phone_number | address
                                             2022-12-11
                                                           iameskelp@gmail.com
                                                                                      1111111111
                                                                                                      Delhi. India
                 James
                               Kelp
                 Kim
                               Kardarsian
                                             2022-11-01
                                                           kimkardasian@gmail.com
                                                                                      222222222
                                                                                                      Kolkata, India
                                                                                                      Kolkata, India
Mumbai, India
                 Priya
                                             2023-12-01
                                                           priyasharma@gmail.com
                                                                                      3333333333
                               Sharma
             4
                 Krisha
                               Priya
                                             2021-09-02
                                                           krishapriyaa@gmail.com
                                                                                      444444444444
                 Sneha
                               Roy
Scott
                                             2020-10-07
                                                           Sneharoy12@gmail.com
                                                                                      5555555555
                                                                                                      Telangana, India
Tamil Nadu, India
                                             2010-11-03
                                                           patrikscott@gmail.com
                                                                                      66666666666
             6
                 Patrik
                               Miller
                                             2011-09-05
                                                           millerpane@gmail.com
                                                                                                      Orissa, India
                 Pane
                                                                                      7777777777
                                                                                      8888888888
                               Kipler
                                                           kiplerjohn@gmail.com
                                                                                                      Kolkata, India
                                                                                                      Jammu & Kashmir, India
Jammu & Kashmir, India
                 Mikal
                                             2013-08-01
                                                           mikaljohn@gmail.com
                                                                                      99999999999
                               John
            10 l
                 Selina
                               Pick
                                             2021-08-11
                                                           selinapickk@gmail.com
10 rows in set (0.00 sec)
mysql> SELECT * FROM Accounts;
 | account_id | customer_id | account_type | balance
                               savings
                                               30000.00
                                               20000.00
                               current
                               savings
                                               30000.00
           4
                               current
                                               40000.00
           5
                           5
                               savings
                                               40000.00
                                               70000.00
                               savings
                               current
                                               79000.00
                               savings
                                               80000.00
                               current
                                               70000.00
           10
                          10 |
                               savings
                                               50000.00
10 rows in set (0.00 sec)
```

transaction_id	account_id	transaction_type	amount	transaction_date
111	1	deposit	300.00	   2022-10-12
112	2	withdraw	200.00	2012-11-12
113	3	deposit	400.00	2022-10-09
114	4	withdraw	500.00	2022-10-09
115	5	deposit	900.00	2012-11-12
116	6	deposit	200.00	2022-10-01
117	7	withdraw	800.00	2012-11-09
118	8	withdraw	600.00	2012-11-09
119	9	deposit	900.00	2022-08-09
120	10	withdraw	1000.00	2022-11-09

2. Write SQL queries for the following tasks:1. Write a SQL query to retrieve the name, account type and email of all customers.

```
mysql> SELECT
    -> first_name,
    -> last_name,
    -> email,
    -> account_type
    -> FROM
    -> Customers
    -> JOIN
    -> Accounts ON Customers.customer_id = Accounts.customer_id;
 first_name
             | last_name
                            email
                                                      account_type
  James
               Kelp
                             jameskelp@gmail.com
                                                       savings
  Kim
               Kardarsian
                            kimkardasian@gmail.com
                                                      current
  Priya
               Sharma
                             priyasharma@gmail.com
                                                       savings
 Krisha
               Priya
                            krishapriyaa@gmail.com
                                                      current
                             Sneharoy12@gmail.com
  Sneha
               Rov
                                                       savings
  Patrik
               Scott
                             patrikscott@gmail.com
                                                       savings
               Miller
                            millerpane@gmail.com
  Pane
                                                      current
  John
               Kipler
                            kiplerjohn@gmail.com
                                                       savings
  Mikal
                            mikaljohn@gmail.com
                                                      current
               John
  Selina
               Pick
                             selinapickk@gmail.com
                                                      savings
10 rows in set (0.00 sec)
```

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

```
mysql> SELECT
    -> c.first_name,
    -> c.last_name,
    -> t.transaction_id,
    -> t.transaction_type,
    -> t.amount,
    -> t.transaction_date
    -> FROM
    -> Customers c
    -> JOIN
    -> Accounts a ON c.customer_id = a.customer_id
    -> JOIN
    -> Transactions t ON a.account_id = t.account_id;
                           | transaction_id | transaction_type | amount
 first_name | last_name
                                                                           | transaction_date
                                        111 |
                                              deposit
                                                                            2022-10-12
  James
               Kelp
                                                                   300.00
  Kim
               Kardarsian
                                        112
                                              withdraw
                                                                   200.00
                                                                            2012-11-12
  Priya
               Sharma
                                        113
                                              deposit
                                                                   400.00
                                                                            2022-10-09
  Krisha
               Priya
                                              withdraw
                                                                   500.00
                                                                            2022-10-09
                                        114
                                                                            2012-11-12
  Sneha
               Roy
                                        115
                                              deposit
                                                                   900.00
  Patrik
               Scott
                                        116
                                              deposit
                                                                   200.00
                                                                            2022-10-01
  Pane
               Miller
                                        117
                                              withdraw
                                                                   800.00
                                                                            2012-11-09
  John
               Kipler
                                        118
                                              withdraw
                                                                   600.00
                                                                            2012-11-09
                                                                            2022-08-09
                                              deposit
  Mikal
               John
                                        119
                                                                   900.00
                                              withdraw
                                                                            2022-11-09
  Selina
               Pick
                                        120
                                                                  1000.00
10 rows in set (0.00 sec)
```

3. Write a SQL query to increase the balance of a specific account by a certain amount

```
mysql> UPDATE Accounts
   -> SET balance = balance + 100.00
   -> WHERE account_id = 4;
Query OK, 1 row affected (0.00 sec)
Rows matched: 1 Changed: 1 Warnings: 0
```

4 Write a SQL query to increase the balance of a specific account by a certain amount

```
mysql> SELECT
    -> customer_id,
    -> CONCAT(first_name, last_name) AS full_name,
    -> email
    -> FROM
    -> Customers;
                               | email
  customer_id | full_name
                              | jameskelp@gmail.com
            1
              | JamesKelp
            2 | KimKardarsian |
                                kimkardasian@gmail.com
            3
                PrivaSharma
                                priyasharma@gmail.com
              | KrishaPriya
                                krishapriyaa@gmail.com
                SnehaRoy
            5
                                Sneharoy12@gmail.com
            6 | PatrikScott
                                patrikscott@gmail.com
            7
              | PaneMiller
                                millerpane@gmail.com
            8 | JohnKipler
                                kiplerjohn@gmail.com
            9 | MikalJohn
                                mikaljohn@gmail.com
                SelinaPick
                                selinapickk@gmail.com
10 rows in set (0.00 sec)
```

5 Write a SQL query to remove accounts with a balance of zero where the account type is savings.

```
mysql> DELETE FROM Accounts
    -> WHERE balance = 0 AND account_type = 'savings';
Query OK, 1 row affected (0.01 sec)
```

6 Write a SQL query to Find customers living in a specific city.

7 Write a SQL query to Get the account balance for a specific account

```
mysql> SELECT
    -> balance
    -> FROM
    -> Accounts
    -> WHERE
    -> account_id = 001;
+-----+
| balance |
+-----+
| 30000.00 |
+-----+
1 row in set (0.00 sec)
```

8 Write a SQL query to List all current accounts with a balance greater than \$1,000.

9 Write a SQL query to Retrieve all transactions for a specific account.

10 Write a SQL query to Calculate the interest accrued on savings accounts based on a given interest rate.

```
mysql> SELECT
    ->
           accounts.account_id,
           account_type,
           customer_id,
           balance * 0.1 * (DATEDIFF(NOW(), transactions.transaction_date) / 365) AS interest_accrued
    ->
    -> FROM
           Accounts, Transactions
    -> WHERE
           accounts.account_id = transactions.account_id
    ->
           AND accounts.account_type = 'savings';
 account_id | account_type | customer_id | interest_accrued |
                                                 3838.3561620
              savings
               savings
                                                 3875.8904083
                                                44800.0000000
           5
               savings
                                        5
               savings
                                                 9167.1232870
                                                89665.7534240
           8
               savings
                                                 6013.6986300
          10
              savings
                                       10 l
6 rows in set (0.00 sec)
```

11 Write a SQL query to Identify accounts where the balance is less than a specified overdraft limit.

```
mysql> SET @overdraftlimit = 50000;
Query OK, 0 rows affected (0.00 sec)
mysql> SELECT *
    -> FROM Accounts
    -> WHERE balance < @overdraftlimit;
 account_id | customer_id | account_type |
                                             balance
           1
                         1 |
                                             30000.00
                             savings
           2
                         2
                             current
                                             20000.00
           3
                         3
                             savings
                                             30100.00
           Ц
                         4 | current
                                             40100.00
           5
                         5 | savings
                                            40000.00
5 rows in set (0.00 sec)
```

12 Write a SQL query to Find customers not living in a specific city.

customer_id	first_name	last_name	DOB	email	phone_number	address
1	James	Kelp	2022-12-11	jameskelp@gmail.com	1111111111	Delhi, India
2	Kim	Kardarsian	2022-11-01	kimkardasian@gmail.com	222222222	Kolkata, India
3	Priya	Sharma	2023-12-01	priyasharma@gmail.com	333333333	Kolkata, India
5	Sneha	Roy	2020-10-07	Sneharoy12@gmail.com	5555555555	Telangana, India
6	Patrik	Scott	2010-11-03	patrikscott@gmail.com	66666666666	Tamil Nadu, India
7	Pane	Miller	2011-09-05	millerpane@gmail.com	7777777777	Orissa, India
8	John	Kipler	2012-08-02	kiplerjohn@gmail.com	8888888888	Kolkata, India
9	Mikal	John	2013-08-01	mikaljohn@gmail.com	99999999999	Jammu & Kashmir, India
10	Selina	Pick	2021-08-11	selinapickk@gmail.com	Θ	Jammu & Kashmir, India
11	Jamey	Kelp	2012-11-11	jamewykelp@gmail.com	1178653461	Delhi, India

Tasks 3: Aggregate functions, Having, Order By, GroupBy and Joins:

1. Write a SQL query to Find the average account balance for all customers

```
mysql> SELECT AVG(balance) FROM Accounts;
+-----+
| AVG(balance) |
+-----+
| 50920.0000000 |
+------+
1 row in set (0.00 sec)
```

2 Write a SQL query to Retrieve the top 10 highest account balances.

```
* FROM Accounts ORDER BY balance DESC LIMIT 10;
  account_id
               customer_id | account_type |
           8
                          8
                              savings
                                             80000.00
           7
                          7
                              current
                                             79000.00
                              savings
           6
                                             70000.00
                          6
           9
                          9
                              current
                                             70000.00
                         10
                              savings
          10
                                             50000.00
                              current
           4
                          4
                                             40100.00
           5
                          5
                              savings
                                             40000.00
           3
                          3
                            | savings
                                             30100.00
           1
                          1
                              savings
                                              30000.00
                              current
                                              20000.00
10 rows in set (0.00 sec)
```

3 Write a SQL query to Calculate Total Deposits for All Customers in specific date.

```
mysql> SELECT SUM(amount) AS totaldeposit
    -> FROM Transactions
    -> WHERE transaction_date = '2022-10-12';
+-----+
| totaldeposit |
+-----+
| 300.00 |
+-----+
1 row in set (0.00 sec)
```

4 Write a SQL query to Find the Oldest and Newest Customers.

```
mysql> SELECT * FROM Customers LIMIT 1;
| customer_id | first_name | last_name | DOB | email | phone_number | address |
| 1 | James | Kelp | 2022-12-11 | jameskelp@gmail.com | 1111111111 | Delhi, India |
1 row in set (0.00 sec)
```

5 Write a SQL query to Retrieve transaction details along with the account type.

```
mysql> SELECT transactions.*, accounts.account_type
    -> FROM Transactions
    -> JOIN Accounts
    -> ON transactions.account_id = accounts.account_id
    -> ORDER BY transactions.transaction_id;
                                                             | transaction_date | account_type
  transaction_id | account_id | transaction_type | amount
             111
                                 deposit
                                                      300.00
                                                               2022-10-12
                                                                                   savings
             112
                             2
                                                               2012-11-12
                                 withdraw
                                                      200.00
                                                                                   current
             113
                             3
                                                     400.00
                                                               2022-10-09
                                 deposit
                                                                                   savings
                                 withdraw
             114
                                                     500.00
                                                               2022-10-09
                                                                                   current
                             5
                                                               2012-11-12
             115
                                 deposit
                                                     900.00
                                                                                   savings
             116
                                 deposit
                                                      200.00
                                                               2022-10-01
                                                                                   savings
             117
                             7
                                 withdraw
                                                     800.00
                                                               2012-11-09
                                                                                   current
             118
                                 withdraw
                                                     600.00
                                                               2012-11-09
                                                                                   savings
                             8
             119
                                 deposit
                                                     900.00
                                                               2022-08-09
                                                                                   current
             120
                            10
                                 withdraw
                                                    1000.00
                                                               2022-11-09
                                                                                   savings
10 rows in set (0.00 sec)
```

6 Write a SQL query to Get a list of customers along with their account details.

	++							
	r_id   first_name pe   balance	last_name	DOB	email	phone_number	address	account_id	customer_id
	·+	+	+		+	+	+	·+
 avings	1   James   30000.00	Kelp	2022-12-11	jameskelp@gmail.com	1111111111	Delhi, India	1	1
ırrent	2   Kim   20000.00	Kardarsian	2022-11-01	kimkardasian@gmail.com	222222222	Kolkata, India	2	2
vings	3   Priya   30100.00	Sharma			333333333	Kolkata, India	] 3	
rrent	40100.00	Priya		krishapriyaa@gmail.com		Mumbai, India	4	
vings	40000.00	Roy		Sneharoy12@gmail.com		Telangana, India	5	
vings	70000.00	Scott				Tamil Nadu, India	l 6	
rrent	79000.00	Miller		millerpane@gmail.com		Orissa, India	1 7	
vings	80000.00	Kipler		kiplerjohn@gmail.com		Kolkata, India	. 8	
ırrent	9   Mikal   70000.00	John		mikaljohn@gmail.com		Jammu & Kashmir, India		
vings	10   Selina   50000.00	Pick	2021-08-11	selinapickk@gmail.com	Θ	Jammu & Kashmir, India	10	10

7 Write a SQL query to Retrieve transaction details along with customer information for a specific account.

8 Write a SQL query to Identify customers who have more than one account.

9 Write a SQL query to Calculate the difference in transaction amounts between deposits and withdrawals

10 Write a SQL query to Calculate the average daily balance for each account over a specified period

```
mysql> DELIMITER @@
mysql> CREATE PROCEDURE avgbal(IN val1 DATE, val2 DATE)
    -> BEGIN
    -> SELECT account_id,
   -> (DATEDIFF(val1, val2))*balance/DATEDIFF(val1, val2) AS avgbal
   -> FROM Accounts;
   -> END @@
Query OK, 0 rows affected (0.02 sec)
mysql> DELIMITER ;
mysql> CALL avgbal('2024-01-01', '2023-01-01');
 account_id | avgbal
           1 | 30000.000000
           2 | 20000.000000
          3 | 30100.000000
          4 | 40100.000000
          5 | 40000.000000
          6 | 70000.000000
          7 | 79000.000000
          8 | 80000.000000
          9 | 70000.000000
          10 | 50000.000000
          12 | 30000.000000
11 rows in set (0.01 sec)
Query OK, 0 rows affected (0.03 sec)
```

11 Calculate the total balance for each account type.

12 Identify accounts with the highest number of transactions order by descending order

```
mysql> SELECT accounts.account_id, COUNT(transaction_id) AS count
    -> FROM Accounts JOIN Transactions
    -> ON accounts.account_id = transactions.account_id
    -> GROUP BY accounts.account_id ORDER BY count DESC;
 account_id | count |
           1 |
                    1 |
           2 |
                    1
           3 |
                    1 |
           4
                    1
           5 I
                    1
           6
                    1
           7 |
                    1 |
           8 I
                    1
           9 |
                    1 |
          10 |
                    1 |
10 rows in set (0.00 sec)
```

13 List customers with high aggregate account balances, along with their account types.

```
mysql> SELECT customers.first_name,
    -> GROUP_CONCAT(accounts.account_type) AS account_types,
    -> SUM(accounts.balance) AS total
    -> FROM Customers JOIN Accounts
    -> ON customers.customer_id = accounts.customer_id
    -> GROUP BY customers.first_name ORDER BY total DESC;
 first_name |
              account_types
                                total
 John
              savings
                                 80000.00
| Pane
              current
                                 79000.00
 Mikal
              current
                                 70000.00
 Patrik
              savings
                                 70000.00
James
             | savings,current | 60000.00
 Selina
              savings
                                 50000.00
 Krisha
              current
                                 40100.00
 Sneha
               savings
                                 40000.00
 Priva
               savings
                               30100.00
 Kim
               current
                                 20000.00
10 rows in set (0.00 sec)
```

14 Identify and list duplicate transactions based on transaction amount, date, and account.

```
mysql> SELECT * FROM Transactions
    -> WHERE(account_id, transaction_date, amount)
   -> IN (SELECT account_id, transaction_date, amount
   -> FROM transactions GROUP BY account_id, transaction_date, amount
    -> HAVING COUNT(*)>1);
 transaction_id | account_id | transaction_type | amount
                                                             transaction_date
             120
                           10 | withdraw
                                                   1000.00
                                                             2022-11-09
             121 l
                           10 | withdraw
                                                   1000.00
                                                             2022-11-09
2 rows in set (0.00 sec)
```

Tasks 4: Subquery and its type:

1. Retrieve the customer(s) with the highest account balance

2 Calculate the average account balance for customers who have more than one account

3 Retrieve accounts with transactions whose amounts exceed the average transaction amount.

```
mysql> SELECT accounts.account_id, accounts.customer_id, accounts.account_type
    -> FROM Accounts, Transactions
    -> WHERE accounts.account_id = transactions.account_id
    -> AND amount > (SELECT AVG(amount) FROM Transactions)
    -> GROUP BY accounts.account_id, accounts.customer_id, accounts.account_type;
 account_id | customer_id | account_type |
          5 |
                        5 | savings
          7
                           current
          9
                         9
                            current
          10 |
                        10 | savings
4 rows in set (0.00 sec)
```

4 Identify customers who have no recorded transactions.

5 Calculate the total balance of accounts with no recorded transactions.

```
mysql> SELECT SUM(balance) AS no_tranc
    -> FROM Accounts
    -> WHERE account_id IN (SELECT accounts.account_id FROM Accounts
    -> WHERE accounts.account_id NOT IN (SELECT account_id FROM Transactions));
+-----+
| no_tranc |
+-----+
| 30000.00 |
+-----+
1 row in set (0.00 sec)
```

6 Retrieve transactions for accounts with the lowest balance

7 Identify customers who have accounts of multiple types.

8 Calculate the percentage of each account type out of the total number of accounts

```
mysql> SELECT
    ->
           account_type,
           COUNT(*) AS no_of_accs,
    ->
           COUNT(*) / (SELECT COUNT(*) FROM Accounts) * 100 AS percentage
   ->
   -> FROM
   ->
          Accounts
    -> GROUP BY
   ->
          account_type;
 account_type | no_of_accs | percentage |
                          6 |
 savings
                                 54.5455
                          5 |
                                 45.4545
current
2 rows in set (0.01 sec)
```

9 Retrieve all transactions for a customer with a given customer\_id.

```
mysql> DELIMITER //
mysql> CREATE PROCEDURE retritranscation( IN val1 INT)
    -> BEGIN
    -> SELECT * FROM Transactions WHERE account_id
    -> IN (SELECT account_id FROM Accounts WHERE customer_id = val1);
    -> END //
Query OK, 0 rows affected (0.01 sec)
```

```
mysql> DELIMITER;
mysql> CALL retritranscation(10);

| transaction_id | account_id | transaction_type | amount | transaction_date |

| 120 | 10 | withdraw | 1000.00 | 2022-11-09 |

| 121 | 10 | withdraw | 1000.00 | 2022-11-09 |

2 rows in set (0.00 sec)

Query OK, 0 rows affected (0.02 sec)
```

 ${f 10}$  . Calculate the total balance for each account type, including a subquery within the SELECT clause