```
MySQL 8.0 Command Line Client                                              —  □  ✕

mysql> SELECT * FROM transcations;
ERROR 1146 (42S02): Table 'hmbank.transcations' doesn't exist
mysql> SELECT * FROM  accounts;
+------------+-------------+--------------+-----------+
| account_id | customer_id | account_type | balance   |
+------------+-------------+--------------+-----------+
|        101 |           1 | savings      |   5000.00 |
|        102 |           2 | current      |  10000.00 |
|        103 |           3 | savings      |   7500.00 |
|        104 |           4 | current      |   3000.00 |
|        105 |           5 | savings      |   6000.00 |
+------------+-------------+--------------+-----------+
5 rows in set (0.10 sec)

mysql> /*  Combine first and last names of customers as a full name */
mysql> SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM Customers;
+------------------+
| full_name        |
+------------------+
| sharath akula    |
| sharath1 akula1  |
| sharath2 akula2  |
| sharath3 akula3  |
| sharath4 akula4  |
+------------------+
5 rows in set (0.74 sec)

mysql> /* 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, 0 rows affected (0.19 sec)

mysql> SELECT * FROM  accounts;
+------------+-------------+--------------+-----------+
| account_id | customer_id | account_type | balance   |
+------------+-------------+--------------+-----------+
|        101 |           1 | savings      |   5000.00 |
|        102 |           2 | current      |  10000.00 |
|        103 |           3 | savings      |   7500.00 |
|        104 |           4 | current      |   3000.00 |
|        105 |           5 | savings      |   6000.00 |
+------------+-------------+--------------+-----------+
5 rows in set (0.04 sec)
```

```
mysql> /*    TASK 2     */
mysql> SELECT first_name, last_name, email FROM Customers;
+------------+------------+----------------------+
| first_name | last_name  | email                |
+------------+------------+----------------------+
| sharath    | akula      | sharath@gmail.com    |
| sharath1   | akula1     | sharath1@gmail.com   |
| sharath2   | akula2     | sharath2@gmail.com   |
| sharath3   | akula3     | sharath3@gmail.com   |
| sharath4   | akula4     | sharath4@gmail.com   |
+------------+------------+----------------------+
5 rows in set (1.78 sec)

mysql> /*   Increase the balance of a specific account by a certain amount.*/
mysql> UPDATE Accounts SET balance = balance + 1000 WHERE account_id = 1;
Query OK, 0 rows affected (0.61 sec)
Rows matched: 0  Changed: 0  Warnings: 0

mysql> SELECT * FROM transcations;
ERROR 1146 (42S02): Table 'hmbank.transcations' doesn't exist
mysql> SELECT * FROM  accounts;
+------------+-------------+--------------+-----------+
| account_id | customer_id | account_type | balance   |
+------------+-------------+--------------+-----------+
|        101 |           1 | savings      |   5000.00 |
|        102 |           2 | current      |  10000.00 |
|        103 |           3 | savings      |   7500.00 |
|        104 |           4 | current      |   3000.00 |
|        105 |           5 | savings      |   6000.00 |
+------------+-------------+--------------+-----------+
5 rows in set (0.10 sec)

mysql> /*  Combine first and last names of customers as a full name */
mysql> SELECT CONCAT(first_name, ' ', last_name) AS full_name FROM Customers;
+----------------+
| full_name      |
+----------------+
| sharath akula  |
| sharath1 akula1 |
| sharath2 akula2 |
| sharath3 akula3 |
| sharath4 akula4 |
+----------------+
```

```
MySQL 8.0 Command Line Client                                                                    —  □  ✕

mysql> select * from accounts;
+------------+-------------+--------------+-----------+
| account_id | customer_id | account_type | balance   |
+------------+-------------+--------------+-----------+
|        101 |           1 | savings      |   5000.00 |
|        102 |           2 | current      |  10000.00 |
|        103 |           3 | savings      |   7500.00 |
|        104 |           4 | current      |   3000.00 |
|        105 |           5 | savings      |   6000.00 |
+------------+-------------+--------------+-----------+
5 rows in set (0.00 sec)

mysql> select * from customers;
+-------------+------------+-----------+------------+-------------------+--------------+--------------+
| customer_id | first_name | last_name | DOB        | email             | phone_number | address      |
+-------------+------------+-----------+------------+-------------------+--------------+--------------+
|           1 | sharath    | akula     | 1990-05-15 | sharath@gmail.com | 1234567890   | 123 Main St  |
|           2 | sharath1   | akula1    | 1985-08-22 | sharath1@gmail.com| 9876543210   | 456 Oak Ave  |
|           3 | sharath2   | akula2    | 1978-11-30 | sharath2@gmail.com| 5551234567   | 789 Pine Ln  |
|           4 | sharath3   | akula3    | 1995-09-18 | sharath3@gmail.com| 7778889999   | 321 Maple St |
|           5 | sharath4   | akula4    | 1980-03-12 | sharath4@gmail.com| 1112223333   | 987 Cedar Rd |
+-------------+------------+-----------+------------+-------------------+--------------+--------------+
5 rows in set (0.00 sec)

mysql> select * from transactions;
+----------------+------------+------------------+---------+------------------+
| transaction_id | account_id | transaction_type | amount  | transaction_date |
+----------------+------------+------------------+---------+------------------+
|           1001 |        101 | deposit          | 2000.00 | 2023-01-10       |
|           1002 |        102 | withdrawal       |  500.00 | 2023-02-05       |
|           1003 |        103 | deposit          | 1000.00 | 2023-03-20       |
|           1004 |        101 | transfer         | 1500.00 | 2023-04-15       |
|           1005 |        104 | deposit          | 1000.00 | 2023-05-08       |
+----------------+------------+------------------+---------+------------------+
5 rows in set (0.00 sec)

mysql>
```

```
MySQL 8.0 Command Line Client                                                    —  □  X

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use HMbank;
Database changed
mysql> CREATE TABLE Customers (
    ->     customer_id int primary key,
    ->     first_name text,
    ->     last_name text,
    ->     DOB DATE,
    ->     email text,
    ->     phone_number VARCHAR(20),
    ->     address text
    -> );
Query OK, 0 rows affected (3.75 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 (2.07 sec)

mysql> CREATE TABLE Transactions (
    ->     transaction_id INT PRIMARY KEY,
    ->     account_id INT,
    ->     transaction_type VARCHAR(50),
    ->     amount DECIMAL(10, 2),
    ->     transaction_date DATE,
    ->     FOREIGN KEY (account_id) REFERENCES Accounts(account_id)
    -> );
Query OK, 0 rows affected (0.83 sec)

mysql>
```

```
mysql> /*Calculate the interest accrued on savings accounts based on a given interest rate*/
mysql> SELECT account_id, balance * 0.05 AS interest_accrued FROM accounts WHERE account_type = 'savings';
+------------+------------------+
| account_id | interest_accrued |
+------------+------------------+
|        101 |         250.0000 |
|        103 |         375.0000 |
|        105 |         300.0000 |
+------------+------------------+
3 rows in set (0.05 sec)

mysql> /*Identify accounts where the balance is less than a specified overdraft limit.*/
mysql> SELECT * FROM accounts WHERE balance < -500;
Empty set (0.09 sec)

mysql> /* Find customers not living in a specific city.*/
mysql> SELECT * FROM Customers WHERE address NOT LIKE '%specific_city%';
+-------------+------------+-----------+------------+--------------------+--------------+--------------+
| customer_id | first_name | last_name | DOB        | email              | phone_number | address      |
+-------------+------------+-----------+------------+--------------------+--------------+--------------+
|           1 | sharath    | akula     | 1990-05-15 | sharath@gmail.com  | 1234567890   | 123 Main St  |
|           2 | sharath1   | akula1    | 1985-08-22 | sharath1@gmail.com | 9876543210   | 456 Oak Ave  |
|           3 | sharath2   | akula2    | 1978-11-30 | sharath2@gmail.com | 5551234567   | 789 Pine Ln  |
|           4 | sharath3   | akula3    | 1995-09-18 | sharath3@gmail.com | 7778889999   | 321 Maple St |
|           5 | sharath4   | akula4    | 1980-03-12 | sharath4@gmail.com | 1112223333   | 987 Cedar Rd |
+-------------+------------+-----------+------------+--------------------+--------------+--------------+
5 rows in set (0.06 sec)

mysql>
```

```
mysql> /*Calculate the interest accrued on savings accounts based on a given interest rate*/
mysql> SELECT account_id, balance * 0.05 AS interest_accrued FROM accounts WHERE account_type = 'savings';
+------------+------------------+
| account_id | interest_accrued |
+------------+------------------+
|        101 |         250.0000 |
|        103 |         375.0000 |
|        105 |         300.0000 |
+------------+------------------+
3 rows in set (0.05 sec)

mysql> /*Identify accounts where the balance is less than a specified overdraft limit.*/
mysql> SELECT * FROM accounts WHERE balance < -500;
Empty set (0.09 sec)

mysql> _
```

```
                    3 | sharath2  | akula2   | 1978-11-30 | sharath2@gmail.com | 5551234567 | 789 Pine Ln   |
                    4 | sharath3  | akula3   | 1995-09-18 | sharath3@gmail.com | 7778889999 | 321 Maple St  |
                    5 | sharath4  | akula4   | 1980-03-12 | sharath4@gmail.com | 1112223333 | 987 Cedar Rd  |
+-----------+-----------+----------+------------+--------------------+------------+---------------+
5 rows in set (0.02 sec)

mysql> SELECT * FROM customers WHERE address LIKE '%specific_city%';
Empty set (0.04 sec)

mysql> /* Get the account balance for a specific account.*/
mysql> SELECT balance FROM Accounts WHERE account_id = 1;
Empty set (0.04 sec)

mysql> SELECT * FROM  accounts;
+------------+-------------+--------------+-----------+
| account_id | customer_id | account_type | balance   |
+------------+-------------+--------------+-----------+
|        101 |           1 | savings      |   5000.00 |
|        102 |           2 | current      |  10000.00 |
|        103 |           3 | savings      |   7500.00 |
|        104 |           4 | current      |   3000.00 |
|        105 |           5 | savings      |   6000.00 |
+------------+-------------+--------------+-----------+
5 rows in set (0.00 sec)

mysql> SELECT balance FROM Accounts WHERE customer_id = 1;
+---------+
| balance |
+---------+
| 5000.00 |
+---------+
1 row in set (0.18 sec)

mysql> /* List all current accounts with a balance greater than $1,000.*/
mysql> SELECT * FROM Accounts WHERE account_type = 'current' AND balance > 1000;
+------------+-------------+--------------+-----------+
| account_id | customer_id | account_type | balance   |
+------------+-------------+--------------+-----------+
|        102 |           2 | current      |  10000.00 |
|        104 |           4 | current      |   3000.00 |
+------------+-------------+--------------+-----------+
2 rows in set (0.07 sec)

mysql> /*Retrieve all transactions for a specific account*/
```