# Task 2

1. Insert at least 10 sample records into each of the following tables.

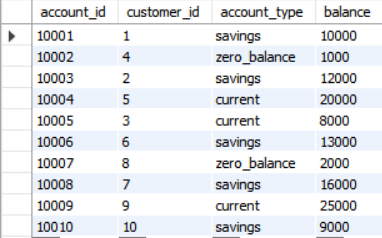
• Customers

• Accounts

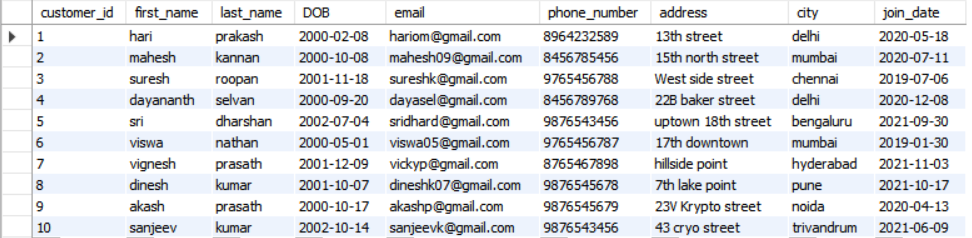
• Transactions

Output:

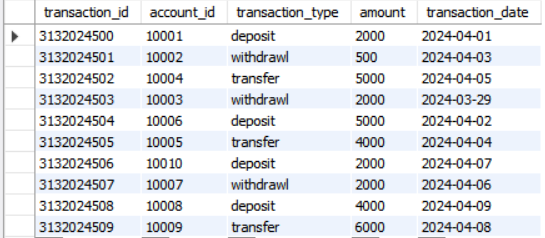
# Accounts table:



# Customers table:



# Transaction table:



1. SQL queries:

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

Query:

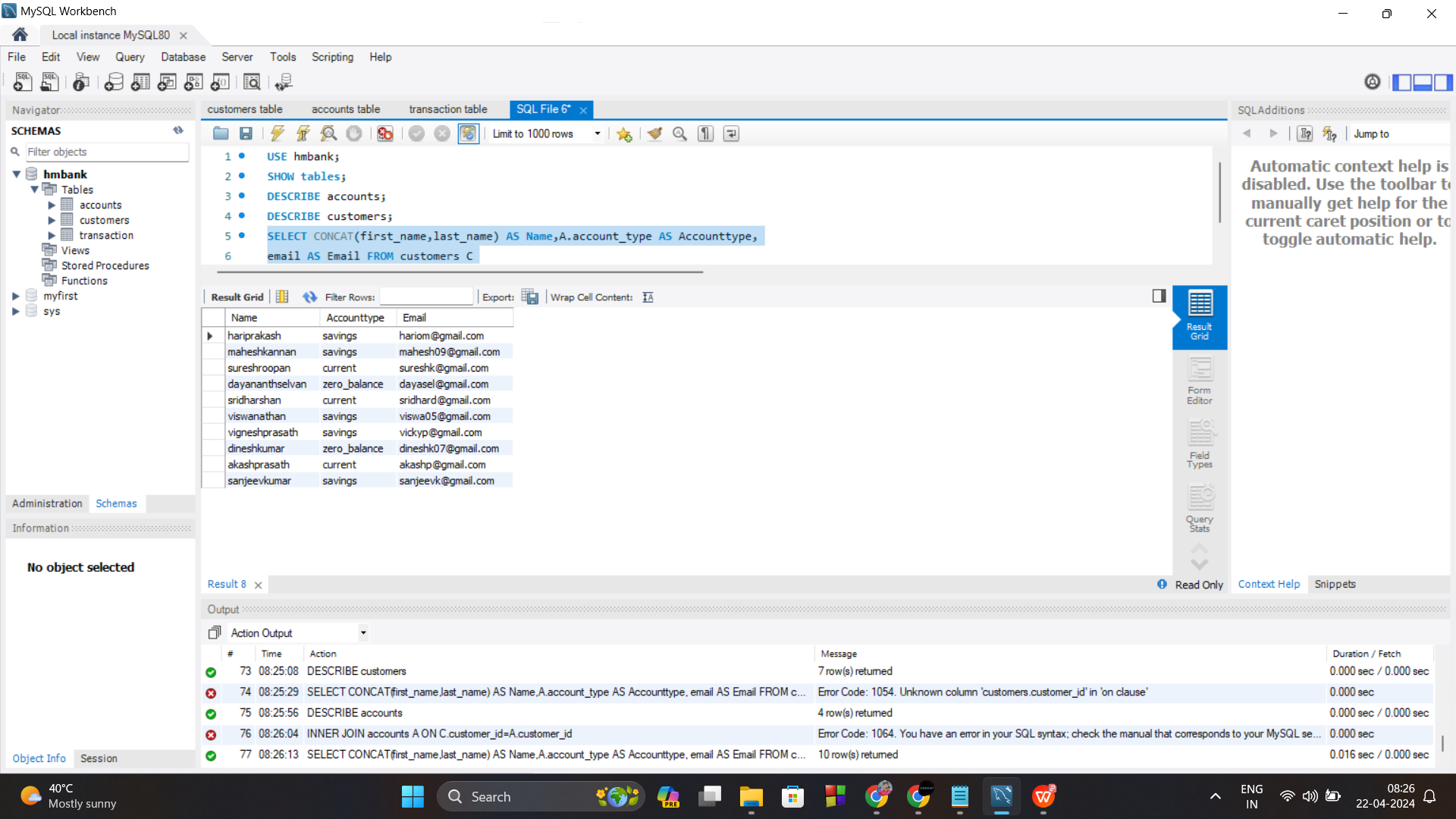
SELECT CONCAT(first\_name,last\_name) AS Name,

A.account\_type AS Accounttype, email AS Email

FROM customers C

INNER JOIN accounts A ON C.customer\_id=A.customer\_id;

Output:



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

Query:

SELECT C.customer\_id,CONCAT(C.first\_name,C.last\_name)

AS name,T.transaction\_id,T.account\_id,T.transaction\_type,

T.amount,T.transaction\_date

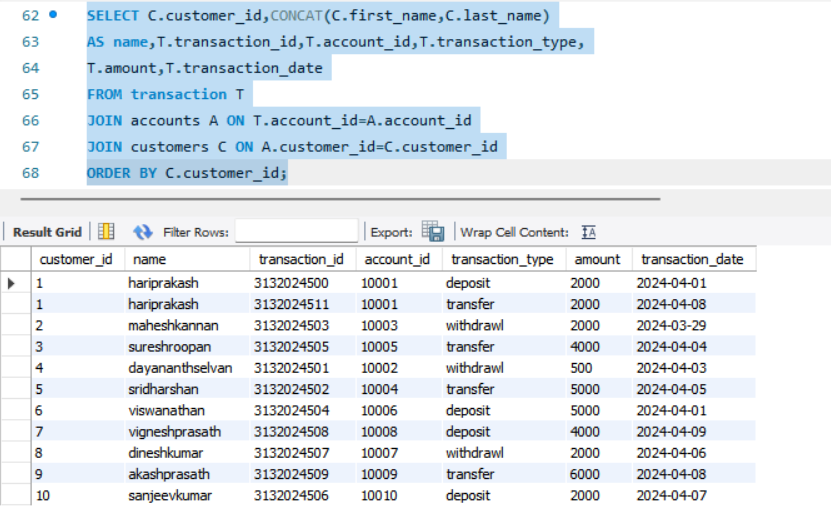
FROM transaction T

JOIN accounts A ON T.account\_id=A.account\_id

JOIN customers C ON A.customer\_id=C.customer\_id

ORDER BY C.customer\_id;

Output:



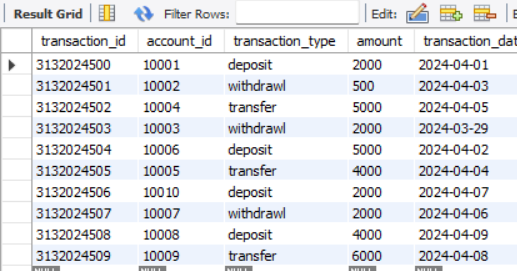
3. Write a SQL query to increase the balance of a specific account by a certain amount.

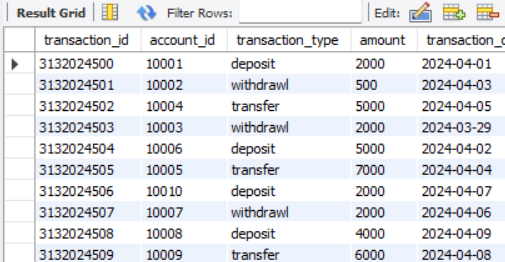
Query:

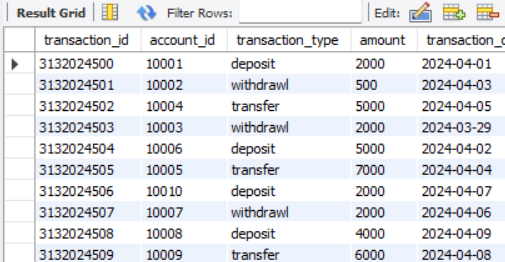
UPDATE hmbank.transaction

SET balance=balance + 3000

WHERE account\_id=10005;







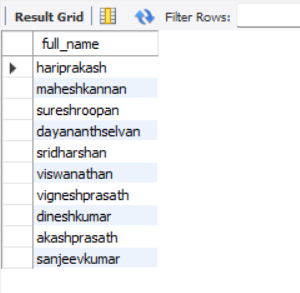
4.Write a SQL query to Combine first and last names of customers as a full\_name.

Query:

SELECT CONCAT(first\_name,last\_name) AS full\_name

FROM customers;

Output:



1. Write a SQL query to remove accounts with a balance of zero where the account

type is savings.

Query:

DELETE FROM transaction

WHERE account\_id IN (

SELECT account\_id FROM accounts

WHERE balance = 0 AND account\_type = 'savings'

);

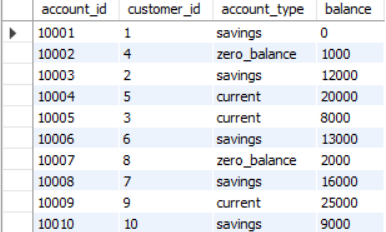
DELETE FROM accounts

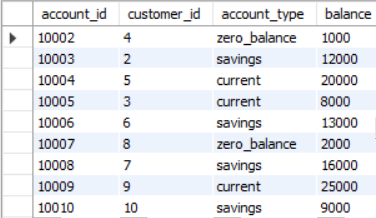
WHERE balance = 0

AND account\_type = 'savings';

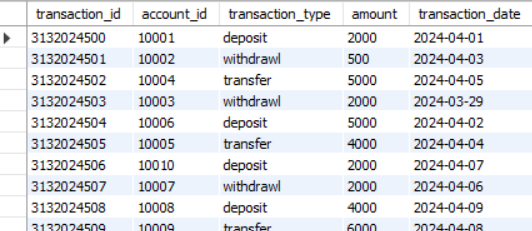
Output:

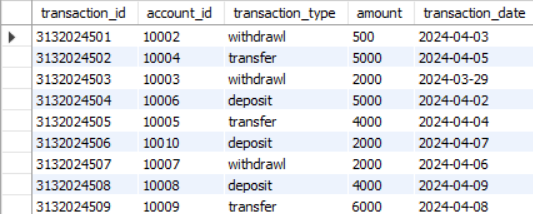
Accounts table:





Transaction table:





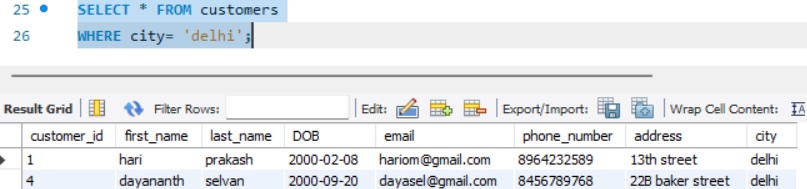
1. Write a SQL query to Find customers living in a specific city.

Query:

SELECT \* FROM customers

WHERE city= ‘delhi’;

Output:



1. Write a SQL query to Get the account balance for a specific account.

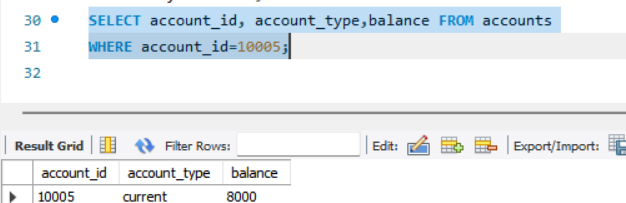
Query:

SELECT account\_id,account\_type,balance

FROM accounts

WHERE account\_id=10005;

Output:



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

Query:

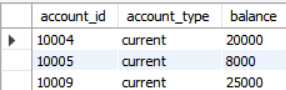
SELECT account\_id, account\_type, balance

FROM accounts

WHERE account\_type= ‘current’

AND balance>1000;

Output:



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

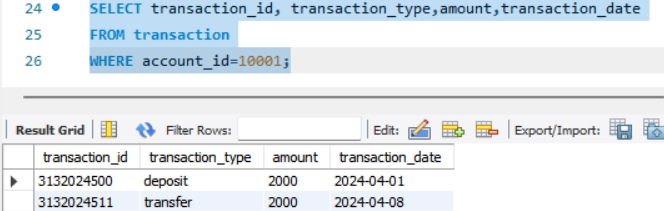
Query:

SELECT transaction\_id, transaction\_type,amount,transaction\_date

FROM transaction

WHERE account\_id=10001;

Output:



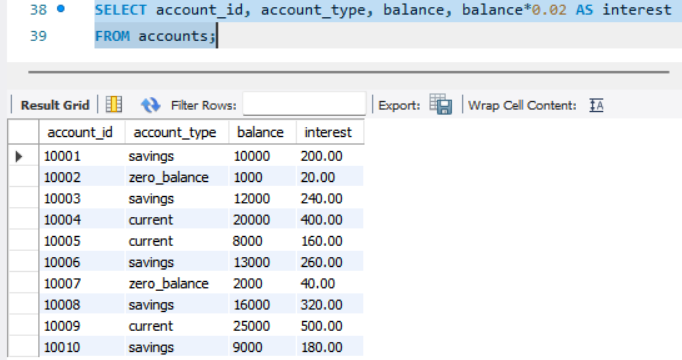
10. Write a SQL query to Calculate the interest accrued on savings accounts based on a

given interest rate.

Query:

SELECT account\_id, account\_type, balance, balance\*0.2 AS interest FROM accounts;

Ouput:



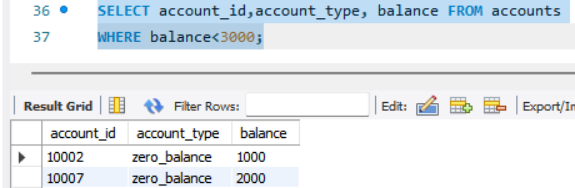
11. Write a SQL query to Identify accounts where the balance is less than a specified overdraft limit.

Query:

SELECT account\_id,account\_type, balance FROM accounts

WHERE balance<3000;

Output:



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

Query:

SELECT \* FROM customers

WHERE NOT city = ‘delhi’;

Output:

