Task 2

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

Output:

Accounts table:

	account_id	customer_id	account_type	balance
١	10001	1	savings	10000
	10002	4	zero_balance	1000
	10003	2	savings	12000
	10004	5	current	20000
	10005	3	current	8000
	10006	6	savings	13000
	10007	8	zero_balance	2000
	10008	7	savings	16000
	10009	9	current	25000
	10010	10	savings	9000

Customers table:

	customer_id	first_name	last_name	DOB	email	phone_number	address	city	join_date
١	1	hari	prakash	2000-02-08	hariom@gmail.com	8964232589	13th street	delhi	2020-05-18
	2	mahesh	kannan	2000-10-08	mahesh09@gmail.com	8456785456	15th north street	mumbai	2020-07-11
	3	suresh	roopan	2001-11-18	sureshk@gmail.com	9765456788	West side street	chennai	2019-07-06
	4	dayananth	selvan	2000-09-20	dayasel@gmail.com	8456789768	22B baker street	delhi	2020-12-08
	5	sri	dharshan	2002-07-04	sridhard@gmail.com	9876543456	uptown 18th street	bengaluru	2021-09-30
	6	viswa	nathan	2000-05-01	viswa05@gmail.com	9765456787	17th downtown	mumbai	2019-01-30
	7	vignesh	prasath	2001-12-09	vickyp@gmail.com	8765467898	hillside point	hyderabad	2021-11-03
	8	dinesh	kumar	2001-10-07	dineshk07@gmail.com	9876545678	7th lake point	pune	2021-10-17
	9	akash	prasath	2000-10-17	akashp@gmail.com	9876545679	23V Krypto street	noida	2020-04-13
	10	sanjeev	kumar	2002-10-14	sanjeevk@gmail.com	9876543456	43 cryo street	trivandrum	2021-06-09

Transaction table:

	transaction_id	account_id	transaction_type	amount	transaction_date
۰	3132024500	10001	deposit	2000	2024-04-01
	3132024501	10002	withdrawl	500	2024-04-03
	3132024502	10004	transfer	5000	2024-04-05
	3132024503	10003	withdrawl	2000	2024-03-29
	3132024504	10006	deposit	5000	2024-04-02
	3132024505	10005	transfer	4000	2024-04-04
	3132024506	10010	deposit	2000	2024-04-07
	3132024507	10007	withdrawl	2000	2024-04-06
	3132024508	10008	deposit	4000	2024-04-09
	3132024509	10009	transfer	6000	2024-04-08

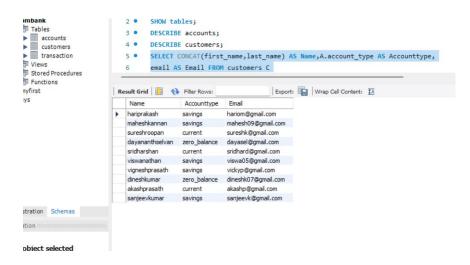
2. SQL queries:

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:



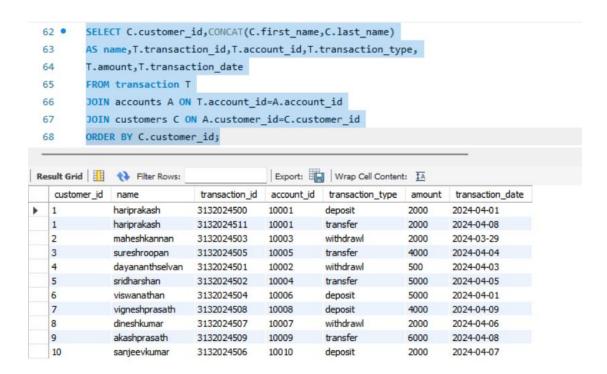
2. Write a SQL query to list all transaction corresponding customer.

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:

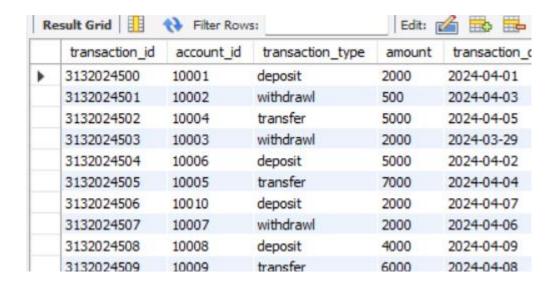


3. Write a SQL query to increase the balance of a specific account by a certain amount.

Query:

UPDATE hmbank.transaction SET balance=balance + 3000 WHERE account id=10005;

	3132024505	10005	transfer	4000	2024-04-04
-					
	3132024505	10005	transfer	7000	2024-04-04

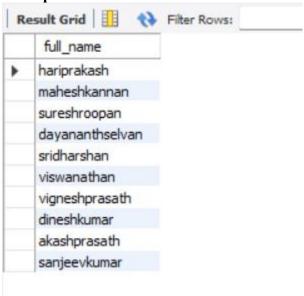


4. Write a SQL query to Combine first and last names of customers as a full name.

Query:

SELECT CONCAT(first_name,last_name) AS full_name FROM customers;

Output:



5. 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:

	account_id	customer_id	account_type	balance
١	10001	1	savings	0
	10002	4	zero_balance	1000
	10003	2	savings	12000
	10004	5	current	20000
	10005	3	current	8000
	10006	6	savings	13000
	10007	8	zero_balance	2000
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	10009	9	current	25000
	10010	10	savings	9000

Transaction table:

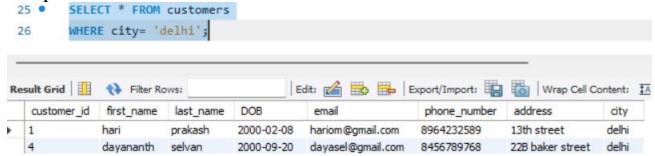
	transaction_id	account_id	transaction_type	amount	transaction_date
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	3132024502	10004	transfer	5000	2024-04-05
	3132024503	10003	withdrawl	2000	2024-03-29
	3132024504	10006	deposit	5000	2024-04-02
	3132024505	10005	transfer	4000	2024-04-04
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	3132024505	10005	transfer	4000	2024-04-04
	3132024506	10010	deposit	2000	2024-04-07
	3132024507	10007	withdrawl	2000	2024-04-06
	3132024508	10008	deposit	4000	2024-04-09
	3132024509	10009	transfer	6000	2024-04-08

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

Query: SELECT * FROM customers WHERE city= 'delhi';



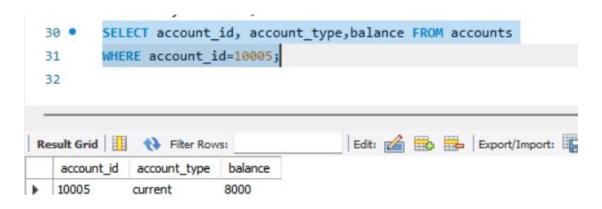


7. Write a SQL query to Get the account balance for a specific account.

Query:

SELECT account_id,account_type,balance FROM accounts WHERE account id=10005;

Output:

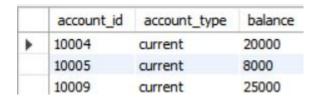


8. Write a SQL query to List all current accounts with a balance greater than 1,000 rupees.

Query:

SELECT account_id, account_type, balance FROM accounts
WHERE account_type= 'current'
AND balance>1000;

Output:

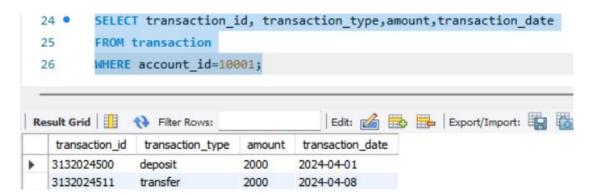


9. Write a SQL query to Retrieve all transactions for a specific account.

Query:

SELECT transaction_id, transaction_type,amount,transaction_date FROM transaction WHERE account_id=10001;

Output:

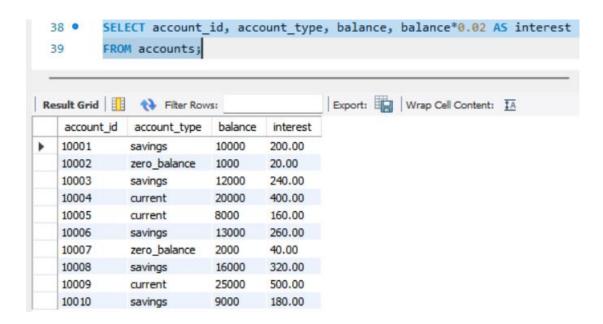


10. Write a SQL query to Calculate the interest accrued on savings accounts based on a given interest rate.

Query:

SELECT account_id, account_type, balance, balance*0.2 AS interest FROM accounts;

Ouput:

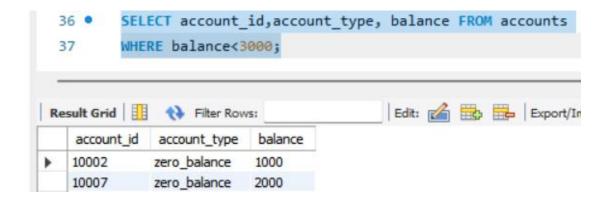


11. Write a SQL query to Identify accounts where the balance is less than a specified overdraft limit.

Query:

SELECT account_id,account_type, balance FROM accounts WHERE balance<3000;

Output:



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

Query:

SELECT * FROM customers WHERE NOT city = 'delhi';

Output:

