

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

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

INSERT INTO Customers VALUES

```
(101,'Alice','Steve','2001-06-03','alice.steve@gmail.com','999482739','Maple st Newyok,')  
(102,'bob','ford','2000-05-09','bob.ford@gmail.com','988736021','Dhruva st Houston'),  
(103,'Cathy','Pant','2002-07-14','cathy.pant@gmail.com','808972549','Molly st LA'),  
(104,'David','Warner','2003-12-09','david.warner@gmail.com','970632098','Walt st Newyork'),  
(105,'Eoin','Morgan','2000-07-30','eoin.morgan@gmail.com','980882660','Disney st Chicago'),  
(106,'Freddy','Salt','2002-12-07','freddy.salt@gmail.com','77045213','Pine st Houston'),  
(107,'George','Antony','2000-08-22','george.antony@gmail.com','90357200','Waffle st Chicago'),  
(108,'Harry','Brook','2003-11-09','harry.brook@gmail.com','770923703','Windstor st LA'),  
(109,'Ian','Bishop','2000-09-12','ian.bishop@gmail.com','888622439','Eloise st Houston'),  
(110,'Jack','Mcgreth','2003-10-20','jack.mcgreth@gmail.com','990882133','Oak st Newyork');
```

SELECT * FROM Customers;

	customer_id	first_name	last_name	DOB	email	phone_number	address
▶	101	Alice	Steve	2001-06-03	alice.steve@gmail.com	999482739	Maple st Newyok,
	102	bob	ford	2000-05-09	bob.ford@gmail.com	988736021	Dhruva st Houston
	103	Cathy	Pant	2002-07-14	cathy.pant@gmail.com	808972549	Molly st LA
	104	David	Warner	2003-12-09	david.warner@gmail.com	970632098	Walt st Newyork
	105	Eoin	Morgan	2000-07-30	eoin.morgan@gmail.com	980882660	Disney st Chicago
	106	Freddy	Salt	2002-12-07	freddy.salt@gmail.com	77045213	Pine st Houston
	107	George	Antony	2000-08-22	george.antony@gmail.com	90357200	Waffle st Chicago
	108	Harry	Brook	2003-11-09	harry.brook@gmail.com	770923703	Windstor st LA
	109	Ian	Bishop	2000-09-12	ian.bishop@gmail.com	888622439	Eloise st Houston
	110	Jack	Mcgreth	2003-10-20	jack.mcgreth@gmail.com	990882133	Oak st Newyork

INSERT INTO Accounts VALUES

```
(2221,101,'Savings',10000.00),  
(2222,102,'Current',5000.00),  
(2223,103,'Zero_balance',780.00),  
(2224,104,'Current',30000.00),  
(2225,105,'Zero_balance',3400.00),  
(2226,106,'Savings',500000.00),  
(2227,107,'Savings',67800.00),  
(2228,108,'Current',12000.00),  
(2229,109,'Zero_balance',9800.00),  
(2230,110,'Savings',73000.00);
```

SELECT * FROM Accounts;

	account_id	customer_id	account_type	balance
►	2221	101	Savings	10000.00
	2222	102	Current	50000.00
	2223	103	Zero_balance	7800.00
	2224	104	Current	30000.00
	2225	105	Zero_balance	54000.00
	2226	106	Savings	500000.00
	2227	107	Savings	65000.00
	2228	108	Current	12000.00
	2229	109	Zero_balance	9800.00
	2230	110	Savings	73000.00

INSERT INTO Transactions VALUES

(5001, 2221, 'deposit', 1000.00, '2025-01-10'),
 (5002, 2222, 'withdrawal', 250.00, '2024-09-23'),
 (5003, 2223, 'transfer', 5500.00, '2025-03-18'),
 (5004, 2224, 'withdrawal', 700.00, '2025-01-31'),
 (5005, 2225, 'transfer', 25000.00, '2023-12-17'),
 (5006, 2226, 'deposit', 50000.00, '2022-08-15'),
 (5007, 2227, 'deposit', 9000.00, '2023-06-13'),
 (5008, 2228, 'withdrawal', 16000.00, '2024-09-01'),
 (5009, 2229, 'transfer', 400.00, '2025-02-14'),
 (5010, 2230, 'deposit', 75000.00, '2023-07-07');

SELECT * FROM Transactions;

	transaction_id	account_id	transaction_type	amount	transaction_date
►	5001	2221	deposit	1000.00	2025-01-10
	5002	2222	withdrawal	250.00	2024-09-23
	5003	2223	transfer	5500.00	2025-03-18
	5004	2224	withdrawal	700.00	2025-01-31
	5005	2225	transfer	25000.00	2023-12-17
	5006	2226	deposit	50000.00	2022-08-15
	5007	2227	deposit	9000.00	2023-06-13
	5008	2228	withdrawal	1600.00	2024-09-01
	5009	2229	transfer	400.00	2025-02-14
	5010	2230	deposit	75000.00	2023-07-07

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

(join function will be done in next task)

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

(join function will be done in next task)

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

```
UPDATE Accounts SET balance = balance + 10000 WHERE account_id=2221;  
SELECT * FROM Accounts;
```

	account_id	customer_id	account_type	balance
▶	2221	101	Savings	22000.00
	2222	102	Current	50000.00
	2223	103	Zero_balance	7800.00
	2224	104	Current	30000.00
	2225	105	Zero_balance	54000.00
	2226	106	Savings	500000.00
	2227	107	Savings	65000.00
	2228	108	Current	12000.00
	2229	109	Zero_balance	9800.00
	2230	110	Savings	73000.00
●	NULL	NULL	NULL	NULL

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

```
SELECT CONCAT(first_name,' ',last_name) as full_name from Customers;
```

	full_name
▶	Alice Steve
	bob ford
	Cathy Pant
	David Warner
	Eoin Morgan
	Freddy Salt
	George Antony
	Harry Brook
	Ian Bishop
	Jack Mcgreth

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

```
DELETE FROM Accounts WHERE balance = 0.00 AND account_type = 'Savings';
```

account_id	customer_id	account_type	balance
2221	101	Savings	22000.00
2222	102	Current	50000.00
2223	103	Zero_balance	7800.00
2224	104	Current	30000.00
2225	105	Zero_balance	54000.00
2226	106	Savings	500000.00
2227	107	Savings	65000.00
2228	108	Current	12000.00
2229	109	Zero_balance	9800.00
2230	110	Savings	73000.00

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

```
SELECT first_name, last_name, email, address FROM Customers WHERE address LIKE '%Houston%';
```

	first_name	last_name	email	address
▶	bob	ford	bob.ford@gmail.com	Dhruva st Houston
	Freddy	Salt	freddy.salt@gmail.com	Pine st Houston
	Ian	Bishop	ian.bishop@gmail.com	Eloise st Houston

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

```
SELECT balance FROM Accounts WHERE Account_id = 2223;
```

balance
7800.00

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

```
SELECT * FROM Accounts WHERE balance > 1000 and account_type = 'current';
```

	account_id	customer_id	account_type	balance
▶	2222	102	Current	50000.00
	2224	104	Current	30000.00
	2228	108	Current	12000.00

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

```
SELECT transaction_type, amount, transaction_date FROM Transactions WHERE account_id = 2222;
```

	transaction_type	amount	transaction_date
▶	withdrawal	250.00	2024-09-23

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

```
SELECT account_id, balance, (balance * 0.07) AS interest FROM Accounts WHERE account_type = 'savings';
```

	account_id	balance	interest
▶	2221	12000.00	840.0000
	2226	500000.00	35000.0000
	2227	65000.00	4550.0000
	2230	73000.00	5110.0000

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

```
SELECT * from accounts where balance < 10000;
```

	account_id	customer_id	account_type	balance
▶	2223	103	Zero_balance	7800.00
	2229	109	Zero_balance	9800.00

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

```
SELECT * from Customers where address not like '%Newyork%';
```

	customer_id	first_name	last_name	DOB	email
▶	101	Alice	Steve	2001-06-03	alice.steve@gmail.com
	102	bob	ford	2000-05-09	bob.ford@gmail.com
	103	Cathy	Pant	2002-07-14	cathy.pant@gmail.com
	105	Eoin	Morgan	2000-07-30	eoin.morgan@gmail.com
	106	Freddy	Salt	2002-12-07	freddy.salt@gmail.com
	107	George	Antony	2000-08-22	george.antony@gmail.com
	108	Harry	Brook	2003-11-09	harry.brook@gmail.com
	109	Ian	Bishop	2000-09-12	ian.bishop@gmail.com