

Task 3: Writing Basic SELECT Queries

-- 1. Select all columns from the customer table

```
select * from customer;
```

Results

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Query #1 Execution time: 0.27ms

customer_id	name	email	phone	address	pincode
1	John Peterson	john.peterson@example.com	+932025550147	1407OakStreet	20001
2	Emma Johansson	emma.johansson@example.se	+46 709123456	Vasagatan 12	11120
3	Liam McCarthy	liam.mccarthy@example.ie	+35 3851234567	32O'Connell St	90901
4	Sofia Rossi	sofia.rossi@example.it	+39 347890122	ViaRoma55,Milan,Italy	20121

-- 2. Select specific columns

```
select name, address, pincode from customer;
```

Query #2 Execution time: 0.16ms

name	address	pincode
John Peterson	1407OakStreet	20001
Emma Johansson	Vasagatan 12	11120
Liam McCarthy	32O'Connell St	90901
Sofia Rossi	ViaRoma55,Milan,Italy	20121

-- 3. Filter using WHERE

```
SELECT name, email from customer where customer_id=3;
```

Query #3 Execution time: 0.16ms

name	email
Liam McCarthy	liam.mccarthy@example.ie

```
SELECT * from customer where customer_id=3;
```

Query #4 Execution time: 0.16ms

customer_id	name	email	phone	address	pincode
3	Liam McCarthy	liam.mccarthy@example.ie	+35 3851234567	32O'Connell St	90901

-- 4. Filter with AND

select * from customer where customer_id=1 and pincode=20001;

Query #5 Execution time: 0.39ms

customer_id	name	email	phone	address	pincode
1	John Peterson	john.peterson@example.com	+932025550147	1407OakStreet	20001

-- 5. Filter with OR

SELECT * FROM customer

WHERE customer_id = 1 OR customer_id = 2;

Query #6 Execution time: 0.28ms

customer_id	name	email	phone	address	pincode
1	John Peterson	john.peterson@example.com	+932025550147	1407OakStreet	20001
2	Emma Johansson	emma.johansson@example.se	+46 709123456	Vasagatan 12	11120

-- 6. Filter using LIKE

SELECT * FROM customer WHERE NAME LIKE '%H%';

Query #7 Execution time: 0.18ms

customer_id	name	email	phone	address	pincode
1	John Peterson	john.peterson@example.com	+932025550147	1407OakStreet	20001
2	Emma Johansson	emma.johansson@example.se	+46 709123456	Vasagatan 12	11120
3	Liam McCarthy	liam.mccarthy@example.ie	+35 3851234567	32O'Connell St	90901

SELECT * FROM customer WHERE NAME LIKE 'j%';

Query #8 Execution time: 0.15ms

customer_id	name	email	phone	address	pincode
1	John Peterson	john.peterson@example.com	+932025550147	1407OakStreet	20001

SELECT * FROM customer WHERE NAME LIKE '%y';

Query #9 Execution time: 0.17ms

customer_id	name	email	phone	address	pincode
3	Liam McCarthy	liam.mccarthy@example.ie	+35 3851234567	32O'Connell St	90901

SELECT * FROM customer WHERE name NOT LIKE '%a%';

Query #10 Execution time: 0.16ms

customer_id	name	email	phone	address	pincode
1	John Peterson	john.peterson@example.com	+932025550147	1407OakStreet	20001

SELECT * FROM customer WHERE NAME LIKE 'j%' and customer_id = 1;

Query #11 Execution time: 0.16ms

customer_id	name	email	phone	address	pincode
1	John Peterson	john.peterson@example.com	+932025550147	1407OakStreet	20001

-- 7. Filter using BETWEEN

SELECT name,phone FROM customer WHERE customer_id BETWEEN 1 AND 3;

Query #12 Execution time: 0.17ms

name	phone
John Peterson	+932025550147
Emma Johansson	+46 709123456
Liam McCarthy	+35 3851234567

-- 8. Sort results with ORDER BY

SELECT * FROM customer ORDER BY name;

Query #13 Execution time: 0.17ms

customer_id	name	email	phone	address	pincode
2	Emma Johansson	emma.johansson@example.se	+46 709123456	Vasagatan 12	11120
1	John Peterson	john.peterson@example.com	+932025550147	1407OakStreet	20001
3	Liam McCarthy	liam.mccarthy@example.ie	+35 3851234567	32O'Connell St	90901
4	Sofia Rossi	sofia.rossi@example.it	+39 347890122	ViaRoma55,Milan,Italy	20121

SELECT pincode FROM customer ORDER BY pincode;

Query #14 Execution time: 0.13ms

pincode
11120
20001
20121
90901

SELECT * FROM customer ORDER BY name asc, address desc ;

Query #15 Execution time: 0.18ms

customer_id	name	email	phone	address	pincode
2	Emma Johansson	emma.johansson@example.se	+46 709123456	Vasagatan 12	11120
1	John Peterson	john.peterson@example.com	+932025550147	1407OakStreet	20001
3	Liam McCarthy	liam.mccarthy@example.ie	+35 3851234567	32O'Connell St	90901
4	Sofia Rossi	sofia.rossi@example.it	+39 347890122	ViaRoma55,Milan,Italy	20121

-- 9. Limit the number of results

SELECT *

FROM customer

WHERE customer_id IN (1, 3,4)

ORDER BY name DESC

LIMIT 2;

Query #16 Execution time: 0.29ms

customer_id	name	email	phone	address	pincode
4	Sofia Rossi	sofia.rossi@example.it	+39 347890122	ViaRoma55,Milan,Italy	20121
3	Liam McCarthy	liam.mccarthy@example.ie	+35 3851234567	32O'Connell St	90901

-- 10. Combining WHERE, ORDER BY, and LIMIT

SELECT * FROM customer WHERE customer_id BETWEEN 1 AND 4

ORDER BY name

LIMIT 3;

Query #17 Execution time: 0.29ms

customer_id	name	email	phone	address	pincode
2	Emma Johansson	emma.johansson@example.se	+46 709123456	Vasagatan 12	11120
1	John Peterson	john.peterson@example.com	+932025550147	1407OakStreet	20001
3	Liam McCarthy	liam.mccarthy@example.ie	+35 3851234567	32O'Connell St	90901