

Querying Data in MySQL using `SELECT`

The `SELECT` statement is used to query data from a table.

Basic Syntax

```
SELECT column1, column2 FROM table_name;
```

To select all columns:

```
SELECT * FROM users;
```

Filtering Rows with `WHERE`

Equal To

```
SELECT * FROM users WHERE gender = 'Male';
```

Not Equal To

```
SELECT * FROM users WHERE gender != 'Female';
-- or
SELECT * FROM users WHERE gender <> 'Female';
```

Greater Than / Less Than

```
SELECT * FROM users WHERE date_of_birth < '1995-01-01';
SELECT * FROM users WHERE id > 10;
```

Greater Than or Equal / Less Than or Equal

```
SELECT * FROM users WHERE id >= 5;
SELECT * FROM users WHERE id <= 20;
```

Working with NULL

IS NULL

```
SELECT * FROM users WHERE date_of_birth IS NULL;
```

IS NOT NULL

```
SELECT * FROM users WHERE date_of_birth IS NOT NULL;
```

BETWEEN

```
SELECT * FROM users WHERE date_of_birth BETWEEN '1990-01-01' AND '2000-12-31';
```

IN

```
SELECT * FROM users WHERE gender IN ('Male', 'Other');
```

LIKE (Pattern Matching)

```
SELECT * FROM users WHERE name LIKE 'A%'; -- Starts with A  
SELECT * FROM users WHERE name LIKE '%a'; -- Ends with a  
SELECT * FROM users WHERE name LIKE '%li%'; -- Contains 'li'
```

AND / OR

```
SELECT * FROM users WHERE gender = 'Female' AND date_of_birth > '1990-01-01';  
  
SELECT * FROM users WHERE gender = 'Male' OR gender = 'Other';
```

ORDER BY

```
SELECT * FROM users ORDER BY date_of_birth ASC;  
SELECT * FROM users ORDER BY name DESC;
```

LIMIT

```
SELECT * FROM users LIMIT 5; -- Top 5 rows  
SELECT * FROM users LIMIT 10 OFFSET 5; -- Skip first 5 rows, then get next 10  
SELECT * FROM users LIMIT 5, 10; -- Get 10 rows starting from the 6th row (Same as
```

```
above)
```

```
SELECT * FROM users ORDER BY created_at DESC LIMIT 10;
```

Quick Quiz

What does the following queries do?

```
SELECT * FROM users WHERE salary > 60000 ORDER BY created_at DESC LIMIT 5;
```

```
SELECT * FROM users ORDER BY salary DESC;
```

```
SELECT * FROM users WHERE salary BETWEEN 50000 AND 70000;
```