Queries — Basic commands to retrieve information from a database

```sql
SELECT *
FROM movies;
```

SELECT

Query all rows and columns from the `movies` table

```sql
SELECT name, genre
FROM movies;
```

SELECT

Query data in columns `name` and `genre`

```sql
SELECT imdb_rating AS 'IMDb'
FROM movies;
```

AS

Rename the `imdb_rating` column to 'IMDb'

```sql
SELECT DISTINCT genre
FROM movies;
```

DISTINCT

Query distinct values of the `genre` column

```sql
SELECT *
FROM movies
WHERE year > 2014;
```

WHERE

Filter the result to only include rows where `year` is greater than 2014

- `=, !=, >, <, >=, <=`

- `BETWEEN 1990 AND 2000`

- `IS NULL`

- `IS NOT NULL`

```sql
SELECT *
FROM movies
WHERE name LIKE 'Se_en';
```

LIKE

Select movies with names that start with 'Se' and end with 'en' and have exactly one character in the middle

```sql
SELECT *
FROM movies
WHERE name LIKE 'A%';
```

LIKE

Select movies with names that start with letter `'A'`, followed by any number of characters

```sql
SELECT *
FROM movies
WHERE year BETWEEN 1990 AND 1999
    AND genre = 'romance';
```

AND

Select movies where both conditions are true: `year` is in the 90's and `genre` is romance

```sql
SELECT *
FROM movies
WHERE genre = 'romance'
   OR genre = 'comedy';
```

OR

Select movies where at least one of the conditions is true: `genre` is 'romance' and `genre` is 'comedy'

```sql
SELECT name, year, imdb_rating
FROM movies
ORDER BY imdb_rating DESC;
```

ORDER BY

- `ASC` sorts the result in ascending order

- `DESC` sorts the result in descending order

```sql
SELECT name
FROM movies
LIMIT 10;
```

LIMIT

Specifies the maximum number of rows that the query will return

```sql
SELECT name,
 CASE
   WHEN imdb_rating > 8 THEN 'Fantastic'
   WHEN imdb_rating > 6 THEN 'Poor'
   ELSE 'Avoid at ALL Costs'
 END AS 'Review'
FROM movies;
```

CASE

Creates different outputs by evaluating its conditions sequentially and stopping with the first condition whose condition is satisfied

```sql
SELECT name AS 'Name',
  year AS 'Year',
  imdb_rating AS 'IMDb'
FROM movies
WHERE year > 2000 AND
  imdb_rating > 8
ORDER BY imdb_rating DESC
LIMIT 5;
```

Review

Check out the order:

1. `SELECT` as many columns as you want
2. `FROM` indicates which table
3. `WHERE` filters the query
4. `ORDER` BY sorts the query
5. `LIMIT` reduces the number of results