

Selecting columns

```
SELECT *  
FROM people;
```

```
SELECT age, employee  
FROM people;
```

```
SELECT DISTINCT language  
FROM people;
```

```
SELECT COUNT(*)  
FROM people;
```

To exclude non-missing values:

```
SELECT COUNT(birthdate)  
FROM people;
```

To count unique values:

```
SELECT COUNT(DISTINCT birthdate)  
FROM people;
```

Filtering rows

```
SELECT title  
FROM films  
WHERE title <> 'Metropolis';
```

Use ISO date format:

```
SELECT name, birthdate  
FROM people  
WHERE birthdate = '1974-11-11';
```

```
SELECT name, birthdate  
FROM people  
WHERE birthdate = '1974-11-11';
```

```
SELECT *  
FROM films  
WHERE language = 'Spanish'  
AND release_year > 2000  
AND release_year < 2010;
```

```
SELECT title  
FROM films  
WHERE (release_year = 1994 OR release_year = 1995)  
AND (certification = 'PG' OR certification = 'R');
```

```
SELECT title  
FROM films
```

```
WHERE release_year = 1994  
OR release_year = 2000;
```

```
SELECT *  
FROM films  
WHERE release_year <> 2015  
ORDER BY duration
```

Or can use between function:

```
SELECT title  
FROM films  
WHERE release_year  
BETWEEN 1994 AND 2000;
```

```
SELECT title, release_year  
FROM films  
WHERE (release_year >= 1990 AND release_year < 2000)  
AND (language = 'French' OR language = 'Spanish');
```

To replace multiple 'OR' function:

```
SELECT title, language  
FROM films  
WHERE language IN ('English', 'Spanish', 'French');
```

```
SELECT name  
FROM people  
WHERE deathdate IS NULL
```

To find wildcards:

```
SELECT name  
FROM companies  
WHERE name LIKE 'DataC_mp';
```

Or

```
SELECT name  
FROM companies  
WHERE name NOT LIKE 'Data%';
```

Finding names with 'r' as second letter:

```
SELECT name  
FROM people  
WHERE name LIKE '_r%';
```

Aggregate

```
SELECT MAX(duration)  
FROM films
```

AVG, Min, Sum

Arithmetic

```
SELECT (4 * 3)
```

Or

```
Select (4.0 / 3.0)
```

Aliasing

```
SELECT title AS title,  
       (GROSS-BUDGET) AS net_profit  
FROM films;
```

Or

```
SELECT AVG(duration) / 60.0 AS avg_duration_hours  
FROM films;
```

Order by

```
SELECT title  
FROM films  
ORDER BY release_year, name DESC;
```

Group by

FROM before GROUP BY before ORDER BY
In order to GROUP BY, SELECT field must be “calculated”

```
SELECT release_year, count(*)  
FROM films  
GROUP BY release_year;
```

```
SELECT release_year, country, MAX(budget)  
FROM films  
GROUP BY release_year, country  
ORDER BY release_year, country;
```

Having count

Aggregate cant be used with WHERE i.e.

```
SELECT release_year  
FROM films  
GROUP BY release_year  
WHERE COUNT(title) > 10;  
HAVING COUNT(title) > 200;
```

```
SELECT release_year,  
       AVG(budget) AS avg_budget,  
       AVG(gross) AS avg_gross  
FROM films  
WHERE release_year > 1990,  
       avg_budget > 600000000  
GROUP BY release_year  
HAVING AVG(budget) > 600000000  
ORDER BY avg_gross  
LIMIT 5
```