

SQLBolt Order of execution of a Query Exercise 12 — Tasks

Source: https://sqlbolt.com/lesson/select_queries_order_of_execution

Q) Find the number of movies each director has directed

Ans:

```
SELECT DISTINCT(director), COUNT(Title) Number_Of_Movies
FROM movies
GROUP BY director;
```

Explanation:

- **GROUP BY director**: Groups all records by director so that calculations can be done **per director**.
- **COUNT(Title)**: Counts how many movies each director has in the dataset.
- **DISTINCT(director)**: Optional here — **GROUP BY** already ensures distinct groups. You could remove **DISTINCT(director)** and still get the same result.

Q) Find the total domestic and international sales that can be attributed to each director

Ans:

```
SELECT director, SUM(domestic_sales + international_sales) as
Cumulative_sales
FROM movies
INNER JOIN boxoffice
ON movies.id = boxoffice.movie_id
GROUP BY director;
```

Explanation:

- **INNER JOIN**: Joins **movies** and **boxoffice** tables by movie ID so we can access sales data alongside director names.
- **SUM(domestic_sales + international_sales)**: Calculates the **total sales** for each director by adding up domestic and international sales of their movies.
- **GROUP BY director**: Aggregates the sum **per director**.

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