### DAY 1

- SELECT, FROM and WHERE are the basic SQL functions
- '\*' means all columns. Using '\*' after the SELECT query will select all columns of a database
- With the help of the USE function, you can indicate the query to use a particular database, especially when there are multiple databases
- The COUNT function will provide the numerical count of rows
- The **DISTINCT function** will help you see the unique values present in a given column
- '%' is a wild card search
- Use LIKE function and '%' to filter the rows based on a text value

- <, <, >, ≥ are the basic numerical operators used in SQL.
- You can also use AND, OR, BETWEEN, IN to perform numerical queries.
- You can sort the table by using 'ORDER BY' clause.
- By default, it sorts the data in ascending order but you can specify the sort order.
- LIMIT clause can be used to fetch the top 'N' or bottom 'N' amount of records. 'N' can be any numerical value.
- OFFSET clause will help you to skip a certain number of rows in your final result.

- Knowing Summary Analytics in SQL will enable you to perform AD HOC Analysis which is an important business use case
- MAX, MIN and AVG are the common summary analytics function of SQL
- You can define a custom column header name by using 'as' clause
- GROUP BY clause will help you to create a summary of metrics such as average, count etc. for selected column(s)

- The order of query execution in SQL is FROM → WHERE → GROUP BY
  → HAVING → ORDER BY
- GROUP BY and HAVING clauses are often used together
- The Column you use in HAVING should be present in SELECT clause whereas WHERE can use columns that is not present in select clause as well

- You can derive new columns from the existing columns in a table
- As a data analyst, Revenue and Profit are the most common metrics that you will calculate in any industry
- Currency conversion and unit conversion are important business use cases of SQL
- IF function is often used in SQL queries
- When you have more than two conditions, you need to use CASE and END function instead of IF Function