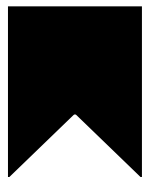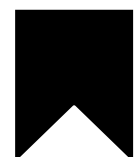# 10 SQL Terms

Every

Data Analyst

Should Know

1.Query

A query is a request to retrieve or manipulate data in a database. Think of it as asking the database a question, like "Show me all the customers in Canada.
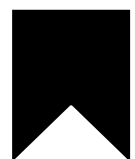
2.Database

A database is a structured collection of data. It's like a digital filing cabinet where all your data is stored and organized for easy access.

3.Table

A table is a set of rows and columns in a database, similar to an Excel spreadsheet. Each row is a record, and each column is a field of data.
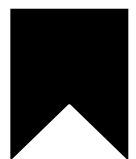
4. Primary Key

A primary key is a unique identifier for each record in a table. It ensures that every row can be uniquely identified, like a Social Security Number for your data.
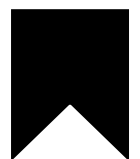
5. Foreign Key

A foreign key is a field in a table that links to the primary key in another table. It's how different tables are connected, enabling you to relate data across tables.
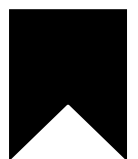
6. Schema

The structure of your database, including how tables, fields, and relationships are organized. It's the blueprint that defines how data is stored.

7. Index

This is a database structure that improves the speed of data retrieval operations. Think of it like an index in a book that helps you find information quickly.

8. SQL Injection

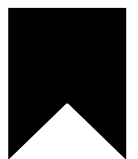SQL Injection is a type of attack where malicious SQL code is used to access or manipulate a database. Understanding this term is crucial for database security.

9. Join

This is a command used to combine data from two or more tables based on a related column between them. Joins are essential for querying across multiple tables.

10. Aggregate Function

A function that performs a calculation on a set of values and returns a single value, like **SUM, COUNT, AVG, MAX, or MIN.** It's useful for summarizing data.

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