

# Structured Query Language

## SQL - Day 1

### Agenda

- Data
- Data Base.
- Data Base Management System (DBMS).
- Relational Database RDBMS.
- Structured Query Language.



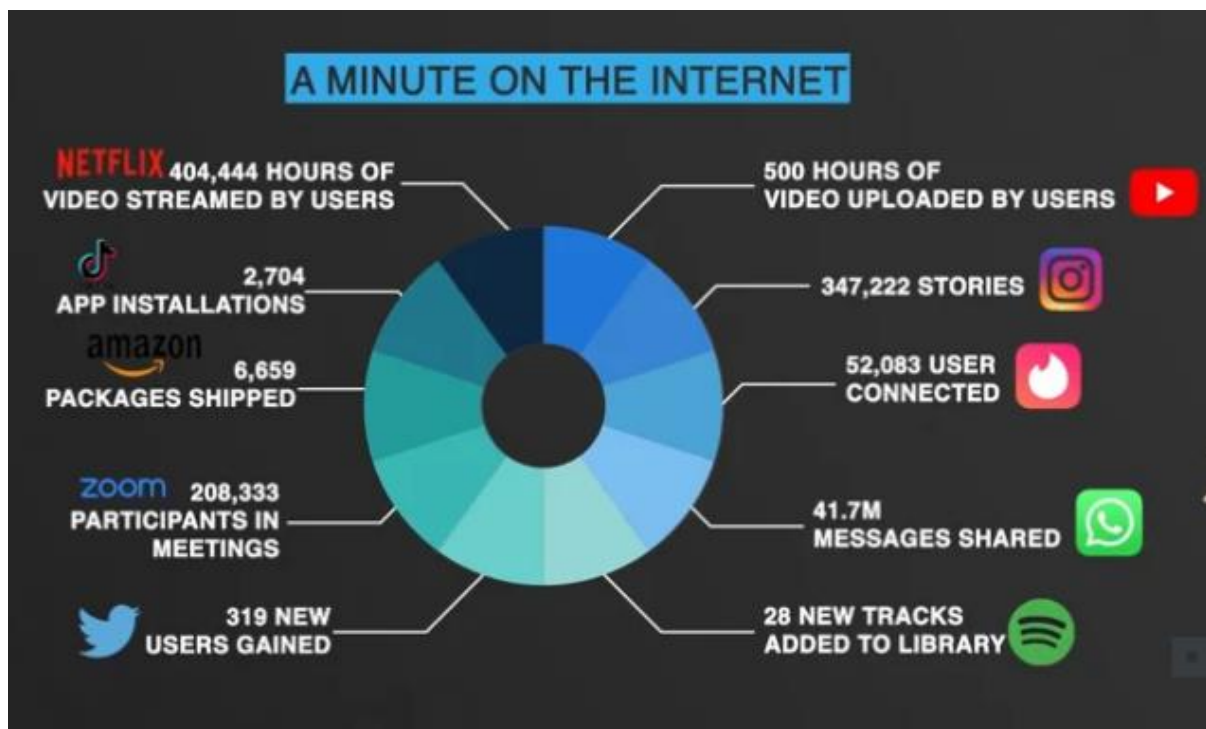
### What is Data?

Data is a collection of facts, such as numbers, words, measurements, observations or just descriptions of things.



# Date Is Huge Collection of Information.

There are huge collections of data generated in a minute from various different sources.



## Where all this data is stored?

Well! All this data is stored in an area called as "Database".



# What is DATA BASE?



- A database is an organized collection of structured information, or data, typically stored electronically in a computer system.
- A Database is a systematic collection of information.
- A Database is an arranged format of the data.
- A Database is an organized collection of information.

## How these huge data is managed?

### What is data managing?

Data can be Created

Data can be Read

Data can be Updated

Data can be Deleted



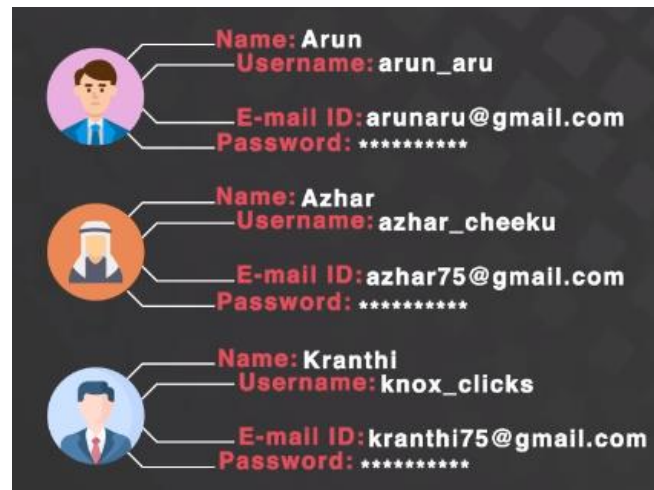
Whichever data is generated can be managed or can be performed with 4 operations i.e. CRUD(Create Read Update Delete) operation. Performing CRUD operations on data is only data managing.

**These huge data is managed by one of the system known as DBMS or Data Base Management System.**

# How this huge data is organized?

Database maintains "tabular format" to maintain the data in organized form.

## Data generated in the source



Name	Username	E-mail ID	Password
Arun	arun_aru	arunaru@gmail.com	*****
Azhar	azhar_cheeku	azhar75@gmail.com	*****
Kranthi	knox_clicks	kranthi75@gmail.com	*****

## Data stored in Database

Data is stored in table format inside the database. Tabular format or table format contains rows and columns to store data in organized or structure manner. The database which stores or manages the data in the form of rows and columns or tabular form is known as "Relational Database Management".

## Advantage of storing data in tabular form.

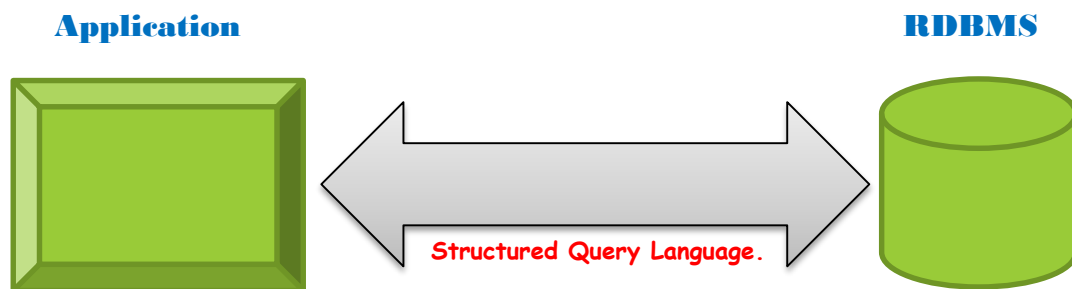
1. The large mass of confusing data is easily reduced to reasonable form that is understandable.
2. A table facilitates representation of even large amounts of data in an attractive, easy to read, easy to access form.

Data present inside the Relational Database Management is managed using the system known as "Relational Database Management System or RDBMS."

## What is SQL?



SQL stands for Structured Query Language. SQL query language is a kind of programming language that's designed to facilitate retrieving specific information from relational databases.



SQL is a query language which is used to communicate between the application and the Relational Database Management System or RDBMS.

SQL is called as Structured Query Language because:

**Structured:** SQL deals with RDBMS, where RDBMS is a database System which stores the data in **structured form**.

**Query Language:** SQL language uses queries to communicate with Database.

## How this Query Language Looks Like?



TO BE CONTINUED.....