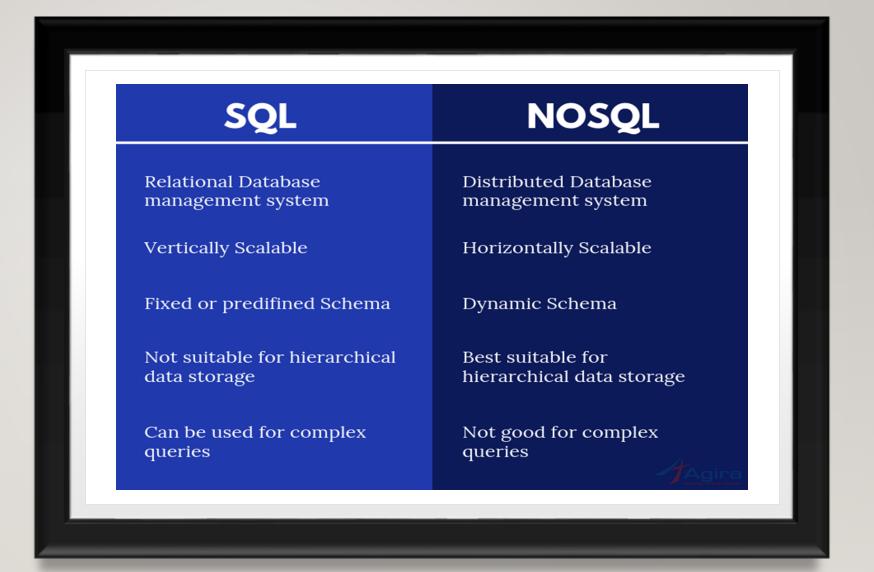
# INTRODUCTION TO DATA BASE

## SQLVS NOSQL



#### **MYSQL**

What is MySQL:

MySQL is an open-source relational database management system (RDBMS) Uses tables as the main component Offers less functionality than PostgreSQL.

Features OF MySQL:
Security and authentication
Client server execution and
remote database access
Embedded SQL Transaction
Control Language

#### **POSTGRESQL**

- What is PostgreSQL :
- An advanced, enterprise-class, and open-source relational database system A highly stable database
   Used as a primary database for many web applications
   General purpose transaction database Language support: Python, Java, JavaScript (Node.js)...
- Features OF PostgreSQL: Can run dynamic websites and web apps as a LAMP stack option. Freely available under an open source license Asynchronous replication... Table inheritance Sophisticated locking mechanism

### SQL SERVER

- What is SQL Server:
- A Relational Database Management System (RDBM) Developed and operated by Microsoft. It's manages and performs all the database operations. It has both command-line and GUI(Graphical User Interface)
- Features OF SQL Server: High availability management. Support for geographic data.
   Centralized management and deployment of multiple instances and applications

#### MYSQLVS POSTGRESQLVS SQL SERVER

- •MySQL : A relational database management system. Most popular open source database Not extensible.
- PostgreSQL: Available as free and open source software in perpetuity An object-relational
  database management system. More advanced and Highly extensible. Provides online backup.
  Most advanced open source database PostgreSQL does not have a native data type for
  geographic data.
- SQL Server : Available through commercial license and can be licensed on a per-core model
  or server and client access level (CAL) model. Use a variant of Structured Query Language
  (SQL) called T-SQL (for Transact-SQL) SQL Server has the geography data type for storing
  geographic spatial data. Easy to use and reliable, with strong .NET compatibility

#### MONGO DB

 MONGO DB IS A SOURCE-AVAILABLE CROSS-PLATFORM DOCUMENT-ORIENTED DATABASE PROGRAM. CLASSIFIED AS A NOSQL DATABASE PROGRAM, MONGO DB USES JSON-LIKE DOCUMENTS WITH OPTIONAL SCHEMAS,

