Introduction To Database Checkpoint

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1. Intro

- Presenting each of the RDBMS and their functionalities
- 2. A comparison between the three RDBMS

MySQL:

Postgre SQL:

SQL Server:

MySQL

What is MySQL?

*MySQL is an open-source relational database management system (RDBMS), It uses tables as the main component and offers less functionality than PostgreSQL

Features of MySQL:

* Security and authentification Client server execution and remote database access Embedded SQL Transaction Control Language



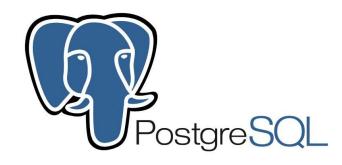
Postgre SQL

What is PostgreSQL?

*An advanced, entrepise-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 unser an open source license Asynchronous replication Table inheritance Sophisticated locking mechanism



Server SQL

What is SQL Server?

A relational Database Management System (RDBM) Developed and operated by Microsoft It manages and performs all the database operations It has both command-line and GUI (Graphical Use Interface)

Features of SQL Server:

High availability management Support for geographic data Centralized management and deployment of multiple instances and applications from a single point of control Programmability



MySQL:

- ** A relational database management system.
- ** Most popular open source database.
- **Not extensible.

Postgre SQL:

- **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
- **Postgre SQL 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 acess level (CAL) model
- **Use a variant of Structured Query Languafe (SQL) called T-SQL (for TransactSQL)
- **SQL Server has the geography data type for storing geographic spatial data
- **Easy to use and reliable, with strong .NET compatibility

MySQL: VS, Postgre SQL: VS, **SQL Server:**