

Part - 1

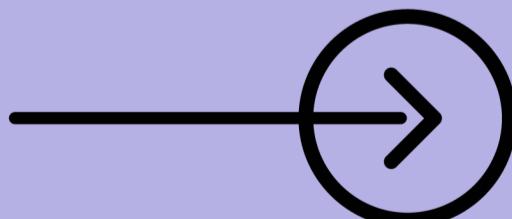
# SQL Basics

## Interview

## Questions and Answers...!



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# **What is the difference between SQL and MySQL?**



## **Key difference:**

- **SQL is a Query language and you can write various queries and command using SQL, in order to access the data from the database, whereas MYSQL is a relational database management system which is use to manage different databases.**



**How is SQL different from MySQL?**

## **Key difference:**

→ **SQL is a language used for managing data in a database, while**

**MySQL is a database management system(Software) that uses SQL as its query language.**

**SQL provides the commands, and MySQL executes them within its environment.**



**Can you explain how SQL is used across different database systems?**

## **Key difference:**

- **SQL is a standardized language that is used by various database systems such as**
  - **MySQL,**
  - **PostgreSQL,**
  - **Oracle, and others.**

**Each system may have its extensions,**

**but they all rely on SQL for core data manipulation tasks.**



**What are some of the key operations you can perform with SQL?**

## **Key difference:**

→ **With SQL, you can perform operations like**

- querying data (**SELECT**),
- updating records (**UPDATE**),
- inserting new data (**INSERT**),
- and deleting existing data (**DELETE**).



**Who maintains MySQL, and how does it relate to SQL standards?**

## **Key difference:**

→ MySQL is maintained by Oracle Corporation. It follows the SQL standards defined by ANSI (American National Standards Institute) and ISO (International Organization for Standardization),

**However, it also includes additional features specific to MySQL.**



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**Counter Questions**

# **1. What are some alternatives to MySQL that also use SQL?**

→ **Alternatives to MySQL include**

- **PostgreSQL,**
- **SQLite,**
- **Oracle Database,**
- **and Microsoft SQL Server.**

**These systems also use SQL as their query language but may offer different features and performance characteristics.**



**Next Question**

## **2. Why would you choose MySQL over other SQL-based databases?**

→ **MySQL is often chosen for its**

- ease of use,**
- strong community support,**
- scalability, and reliability,**
- particularly for web applications.**

**It's also open-source, which makes it accessible to a wide range of users.**



### **3. Can MySQL handle large-scale enterprise applications?**

- **Yes, MySQL can handle large-scale enterprise applications, especially with its support for**
  - clustering,**
  - replication,**
  - and high-availability solutions.**

**However, some enterprises may opt for other databases like Oracle or SQL Server for specific features.**



## **4. How does MySQL ensure data security?**

- MySQL provides several security features such as user authentication, encryption, and access control through privileges and roles.
- It also supports secure connections using SSL.



## **5. What are some common MySQL commands for database management?**

→ Common MySQL commands include

- **CREATE DATABASE** for creating a new database,
- **SHOW DATABASES** to list all databases,
- **CREATE TABLE** to create a table, and
- **ALTER TABLE** to modify an existing table.

Additionally, **BACKUP DATABASE** and **RESTORE DATABASE** are used for backup and recovery operations.



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