

MYSQL:

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- Mysql is an open-source relational database management system(RDBMS) that is widely used to store, retrieve and manage data.
- It is one of the most popular database systems, especially used in web development, due to its reliability, speed and ease of use.
- MySQL uses the SQL language to manage database and perform the tasks.
- MySQL is free and open-source.
- Ideal for both small and larger projects.
- MySQL was first released in 1995.
- MySQL is compliant with the ANSI SQL standard.
- It is a part of LAMP(Linux,Apache,MySQL,Perl/Python/PHP).

Features of MySQL:

- Open-Source: MySQL is an open-source, and it's source code is available for modification.
- Cross-Platform: It works on different platforms.
- Speed and Reliability: Known for fast data handling.
- Scalability: Can be able to handle small-large projects.

DBMS VS RDBMS:

<u>DBMS</u>	<u>RDBMS</u>
<ul style="list-style-type: none">• Stores data in different formats.	<ul style="list-style-type: none">• Stores data in tables with rows and columns.
<ul style="list-style-type: none">• No relation between data.	<ul style="list-style-type: none">• Relation exists between tables using keys.
<ul style="list-style-type: none">• Doesn't support Normalization.	<ul style="list-style-type: none">• Supports Normalization.
<ul style="list-style-type: none">• May or may not use SQL.	<ul style="list-style-type: none">• Uses SQL as a standard.
<ul style="list-style-type: none">• Lack of Data Integrity.	<ul style="list-style-type: none">• Enforces data integrity.
<ul style="list-style-type: none">• Doesn't support transactions.	<ul style="list-style-type: none">• Supports ACID transactions.
<ul style="list-style-type: none">• Doesn't have a specific structure to the data.	<ul style="list-style-type: none">• Have a specific structure to the data - Schemas
<ul style="list-style-type: none">• Ex: File systems,IMS,DMS	<ul style="list-style-type: none">• Ex: MySQL,Oracle,SQL Server