



# My SQL for Beginner

# Objectives

1. What's Database?
2. What's RDBMS?
3. What's MySQL?





# What is a database?





# 1. What's Database?

- A Database is a separate application that stores a set of data. Each database has one or more separate APIs for creating, accessing, managing, searching and replicating the data it holds.
- Some other types of data archives can be used, such as files on a file system or large table hashes, but data retrieval and retrieval can not be quick and easy with these types of data archives systems.
- Today, we use relational database management systems (RDBMS) to store and manage large amounts of data. It is called a relational database, because all data is stored in different data tables and relationships are established by using the Primary Key and some other keys. Known as the Foreign Key.

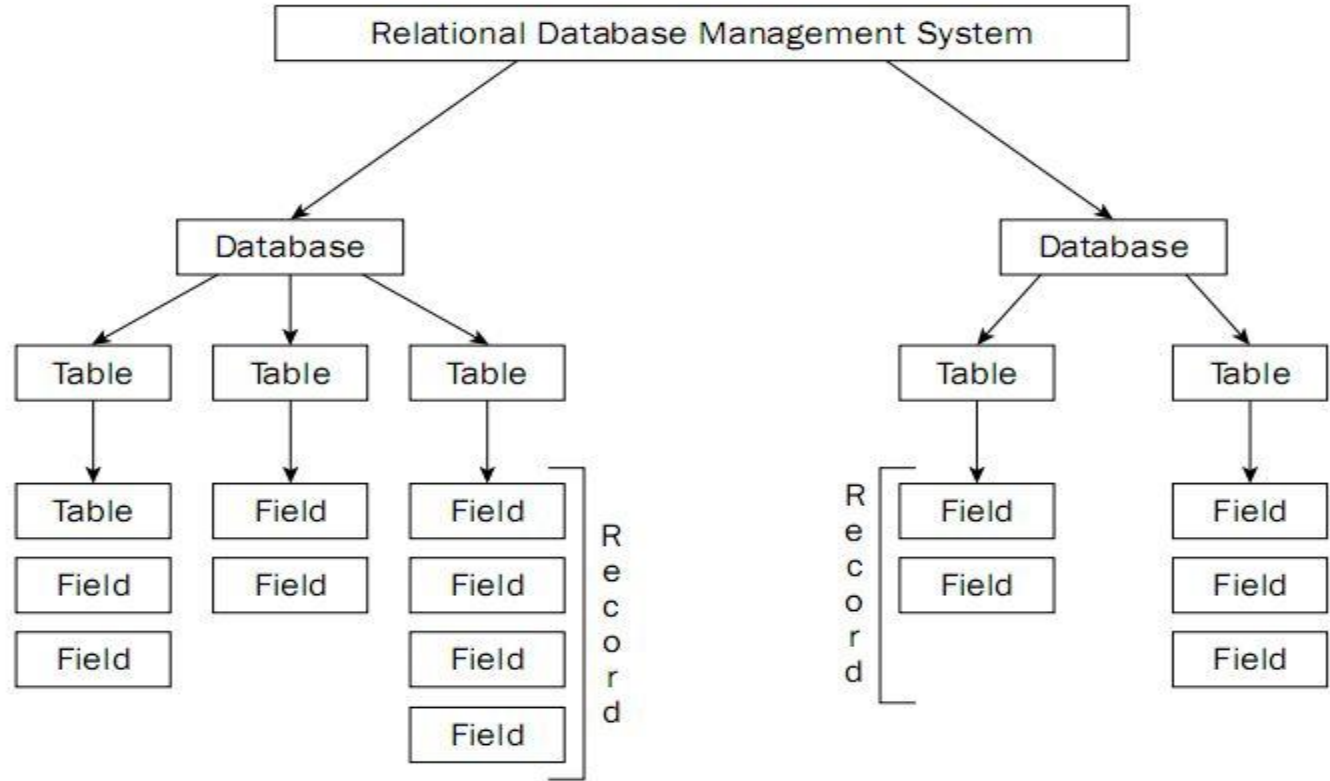




# 1. What's Database?

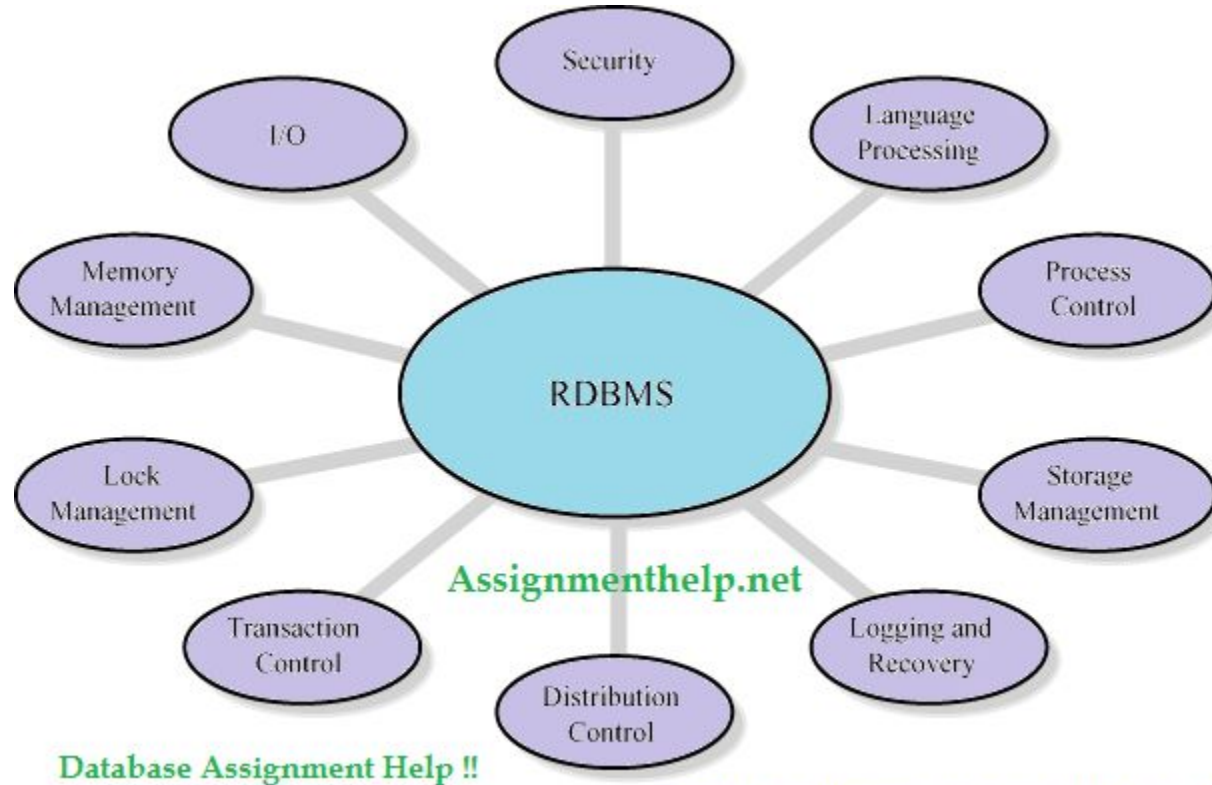
- ❖ A relational database management system (RDBMS) is a software that:
  - Allows you to deploy a database with data tables, columns, and indexes.
  - Ensures Referential Integrity between rows and manifolds.
  - Automatic update of indexes.
  - Interprets an SQL query and composes information from different tables.

# 1. What's Database?





## 2. What's RDBMS?



### 3. What's MySQL?







# 3. What's MySQL?

- ❖ A fast and easy RDBMS to use.
- ❖ Used for many businesses from large to small. MySQL was developed, published, supported by MySQL AB, is a Swedish company. MySQL became quite popular for many reasons:
  - Is the open source code. So, to use it, you do not have to lose a penny.
  - A very powerful program.
  - Uses a standard form of the well-known SQL data language.
  - Works on many operating systems and in many languages such as PHP, PERL, C, C ++, Java, ...
  - Works fast and even with large data sets.
  - Supports large databases, up to 50 million rows or more in a table. The default file size is limited to a 4 GB table, but you can increase this size (if your operating system can handle it) to reach the theoretical limit of 8 TB.
  - Is able to adjust. The open source GPL license allows developers to modify their MySQL software to fit their specific environment.

