

# 1) DataBase server layer 'Tier'

**Definition:** A layer responsible for access and managing databases. Database Management Systems (DBMS) based

**Overview:** is the layer responsible for storing and managing data within web applications. It acts as an intermediary between Application Tier and Data Tier, and is used to handle operations such as querying, storage, and updating, while ensuring security and efficiency in data management.

## importance:

- Isolate the layer containing the data from the end user
- Manage data
- reduce duplicate data
- An easy way to edit and manage data

## real-world use cases:

- 1) Store and manage product data, users, orders, and payments such as Sheln.
- 2) Patient Records and Medical Data Management.
- 3) Library systems.
- 4) Manage accounts, transactions, and bank transfers.

## implemented code snippets:

### Connection with database :

```
{  
  "ConnectionStrings": {  
    "DefaultConnection":  
    "Server=localhost;Database=WebAppDb;Trusted_Connection=True;MultipleActiveResultSets=true"  
  }  
}
```