SQL Tutorial

SQL

Agenda

1. **What Is a Database?**

2. **Types of Database Architecture**

3. **Introduction to SQL**

What Is a Database?

IntelliPaat

An organized collection of data stored in an electronic format

Data

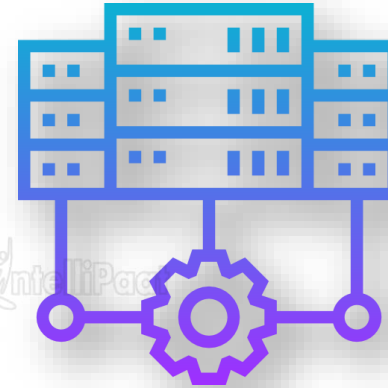Database

Access Data

Manipulate Data

Update Data
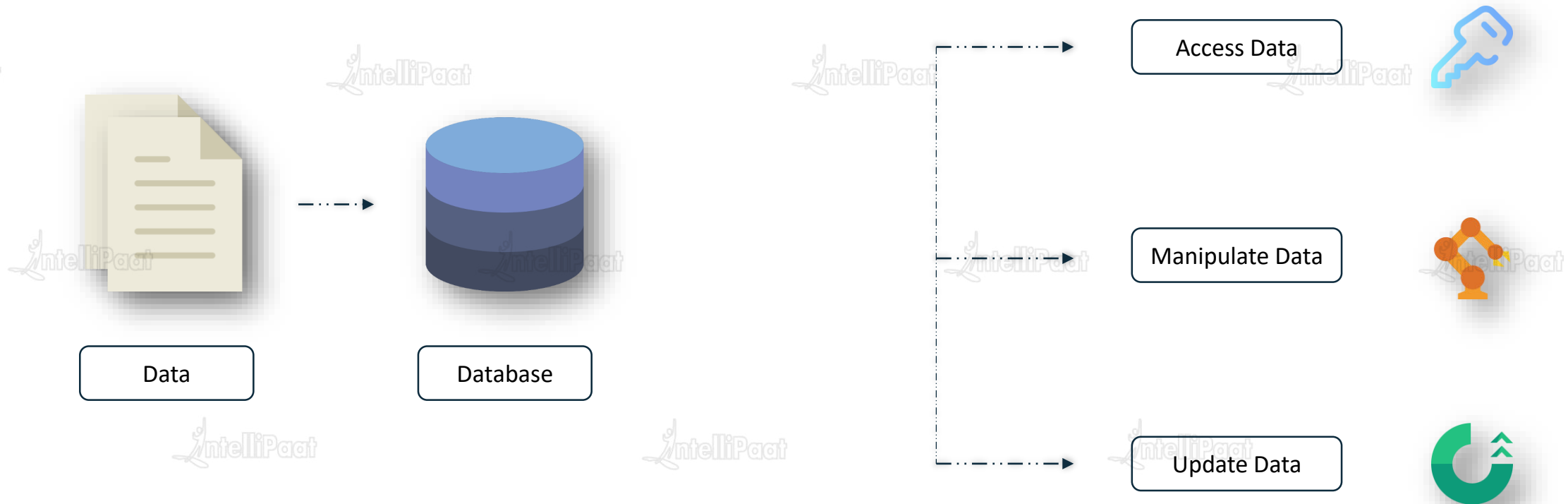
Database Management System

DBMS is a system software for creating and managing databases.
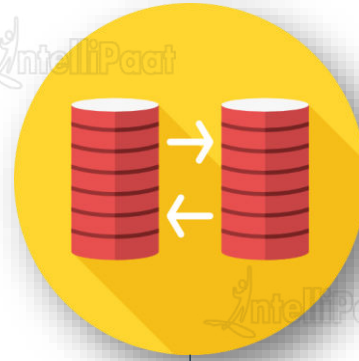
Database

DBMS

Types of DataBase Architecture

File Server

Client Server
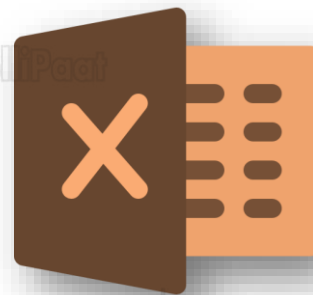
File Server Architecture

Files

Local System

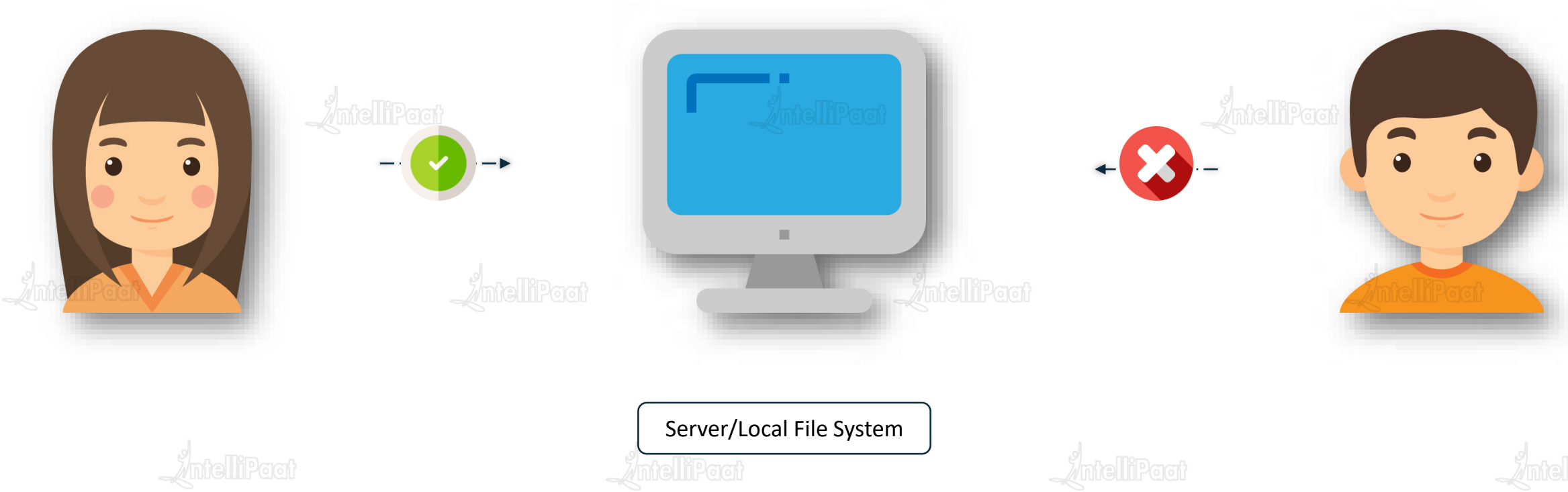# File Server Architecture

Original File → Copy

Changes in the Original File → Do Not Reflect in the Copy

File Server Architecture

Server/Local File System

Client Server Architecture

OLE DB Components

OLE DB Components

OLE DB Components

Network server

Database server

Database

Legend

— Solution calling local DB components

- - OLE DB components passing query requests to database server

- - Database server returning records to local OLE DB components and then back to solution
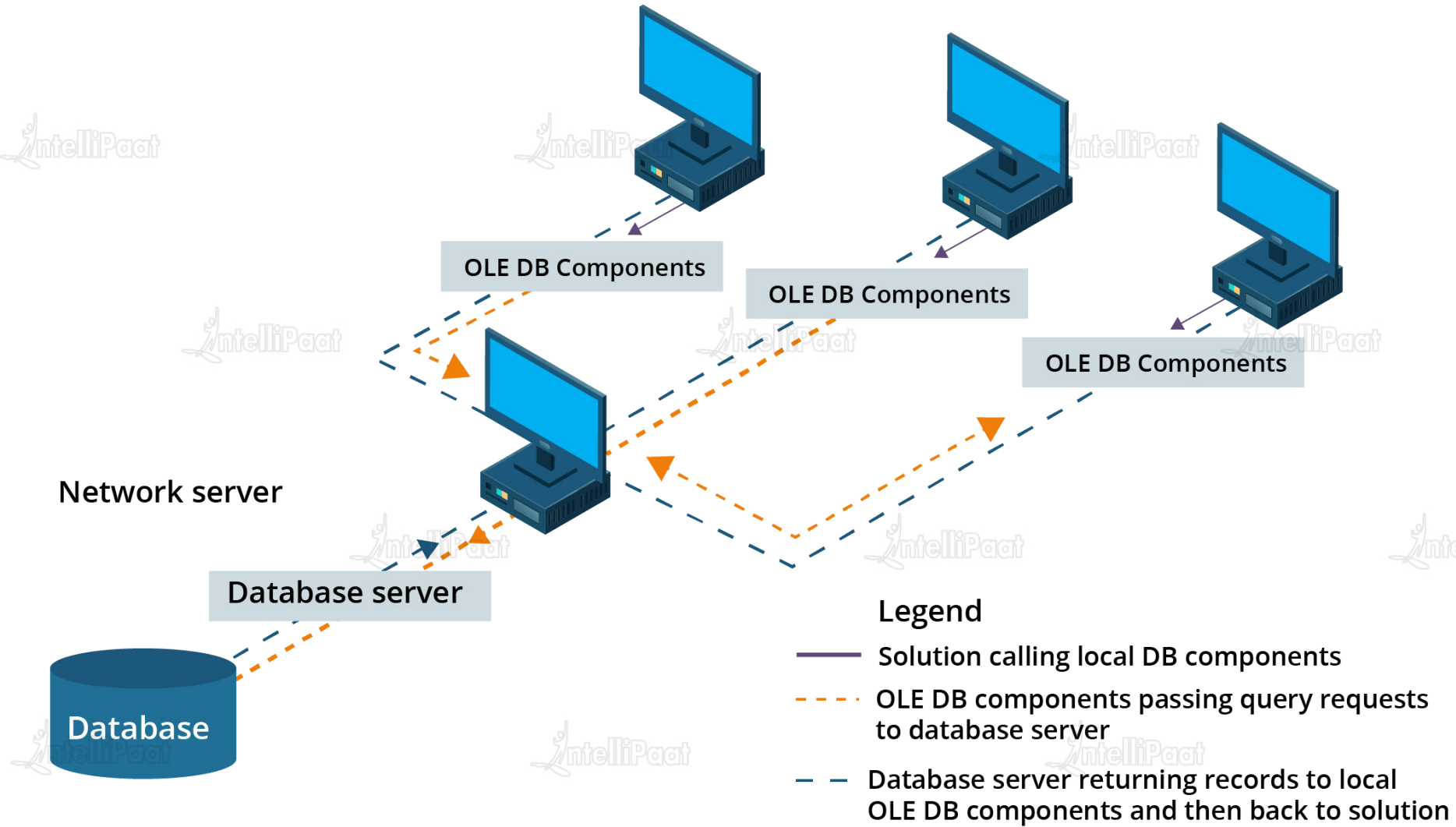
Introduction to SQL

SQL stands for Structured Query Language which is a standard language for accessing and manipulating databases.

Categories of SQL Commands


```
                              SQL

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   ▼              ▼                  ▼              ▼

Data Query      Data              Data          Data Control
Language        Definition        Manipulation  Language
                Language          Language


                Create Table      Insert        Grant

  Select        Alter Table       Update        Revoke

                Drop Table        Delete
```

Thank You