Database Documentation

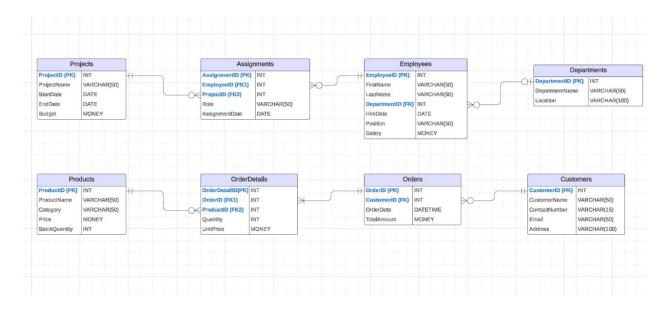
Introduction

Purpose: This database is designed to manage various aspects of a company's operations, including projects, employees, departments, products, orders, and customers.

Overview: The database consists of interconnected tables that store data related to projects, assignments, employees, departments, products, order details, orders, and customers.

Database Structure

ERD



Tables and Columns

- Schema

staff	sales
- projects	- customer
- assignments	- orders
- employees	- orderDetails
- department	- products

1. Projects

- Table Name: Projects

- **Description:** Stores information about company projects.

- Columns:

- O ProjectID (INT, Primary Key): Unique identifier for the project.
- O ProjectName (VARCHAR(50)): Name of the project.
- O StartDate (DATE): Start date of the project.
- O EndDate (DATE): End date of the project.
- O Budget (MONEY): Budget allocated for the project.

2. Assignments

- Table Name: Assignments
- **Description**: Links employees to projects.
- Columns:
 - O AssignmentID (INT, Primary Key): Unique identifier for the assignment.
 - O EmployeeID (INT, Foreign Key): References Employees (EmployeeID).
 - O ProjectID (INT, Foreign Key): References Projects (ProjectID).
 - O Role (VARCHAR(50)): Role of the employee in the project.
 - O AssignmentDate (DATE): Date of assignment.

3. Employees

- Table Name: Employees
- **Description**: Stores information about employees.
- Columns:
 - O EmployeeID (INT, Primary Key): Unique identifier for the employee.
 - O FirstName (VARCHAR(50)): First name of the employee.
 - O LastName (VARCHAR(50)): Last name of the employee.
 - O DepartmentID (INT, Foreign Key): References Departments (DepartmentID).
 - O HireDate (DATE): Date of hire.
 - O Position (VARCHAR(50)): Position of the employee.
 - O Salary (MONEY): Salary of the employee.

4. Departments

- Table Name: Departments
- **Description:** Stores information about departments within the company.
- Columns:
 - O DepartmentID (INT, Primary Key): Unique identifier for the department.
 - O DepartmentName (VARCHAR(50)): Name of the department.
 - O Location (VARCHAR(100)): Location of the department.

5. Products

- Table Name: Products
- **Description:** Stores information about products offered by the company.
- Columns:
 - O ProductID (INT, Primary Key): Unique identifier for the product.
 - O ProductName (VARCHAR(50)): Name of the product.
 - O Category (VARCHAR(50)): Category of the product.
 - O Price (MONEY): Price of the product.
 - O StockQuantity (INT): Quantity of the product in stock.

6. OrderDetails

- Table Name: OrderDetails
- **Description:** Stores details of orders.
- Columns:
 - O OrderDetailID (INT, Primary Key): Unique identifier for the order detail.
 - O OrderID (INT, Foreign Key): References Orders (OrderID).
 - O ProductID (INT, Foreign Key): References Products (ProductID).
 - O Quantity (INT): Quantity of the product ordered.
 - O UnitPrice (MONEY): Price per unit of the product.

7. Orders

- Table Name: Orders
- **Description:** Stores information about customer orders.
- Columns:
 - O OrderID (INT, Primary Key): Unique identifier for the order.
 - O CustomerID (INT, Foreign Key): References Customers (CustomerID).
 - O OrderDate (DATETIME): Date and time of the order.
 - O TotalAmount (MONEY): Total amount of the order.

8. Customers

- Table Name: Customers
- **Description:** Stores information about customers.
- Columns:
 - O CustomerID (INT, Primary Key): Unique identifier for the customer.
 - O CustomerName (VARCHAR(50)): Name of the customer.
 - O ContactNumber (VARCHAR(15)): Contact number of the customer.
 - O Email (VARCHAR(50)): Email address of the customer.
 - O Address (VARCHAR(100)): Address of the customer.

Relationships

- Projects are linked to Assignments via ProjectID.
- Employees are linked to Assignments via EmployeeID.
- Departments are linked to Employees via DepartmentID.
- Products are linked to OrderDetails via ProductID.
- Orders are linked to OrderDetails via OrderID.
- Customers are linked to Orders via CustomerID.

Indexes

- **Primary Keys:** Ensure uniqueness of records in each table.
- Foreign Keys: Maintain referential integrity between tables.