



# **IT Project Management & Resource Allocation system**

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A photograph of three business professionals (two women and one man) sitting around a wooden table in a modern office. They are all smiling and looking at documents and charts spread out on the table. The woman on the left is holding a pen. The man on the right is pointing at a document. The background shows office shelves with plants and a window.

## Aim:

The aim of IT project management and resource allocation systems is to ensure efficient planning, coordination, and optimization of resources to successfully deliver IT projects within scope, budget, and timeline constraints.

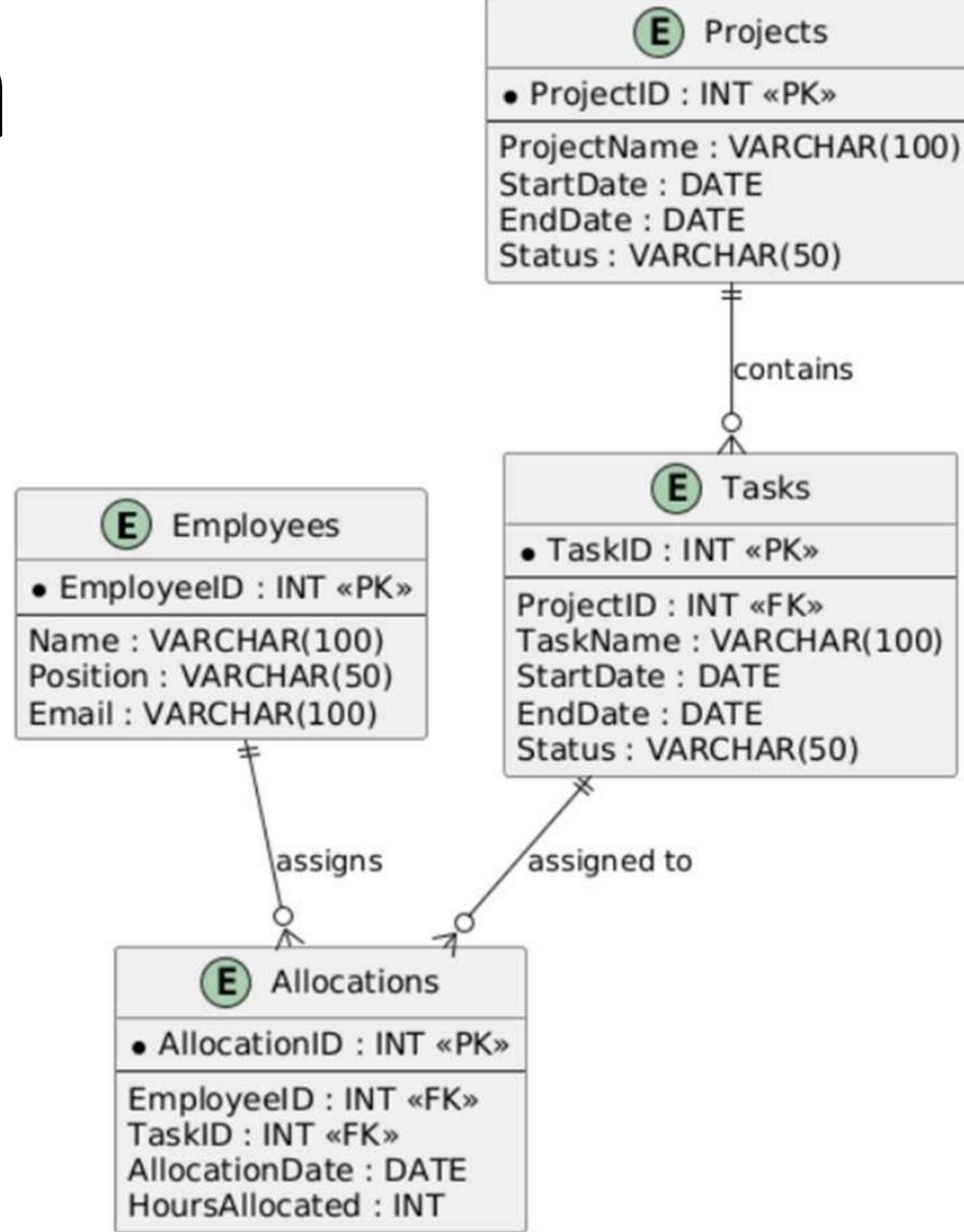
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## Objective:

1. Manage Project Timelines: Facilitate scheduling and sequencing of project tasks to meet deadlines and milestones effectively.
2. Control Project Costs: Monitor and control project expenditures to ensure adherence to budgetary constraints and financial goals.



# ER Diagram







# **TABLES INCLUDED:**

- **EMPLOYEES TABLE.**
  - **PROJECT TABLE**
  - **TASKS TABLE**
  - **ALLOCATION TABLE**
-





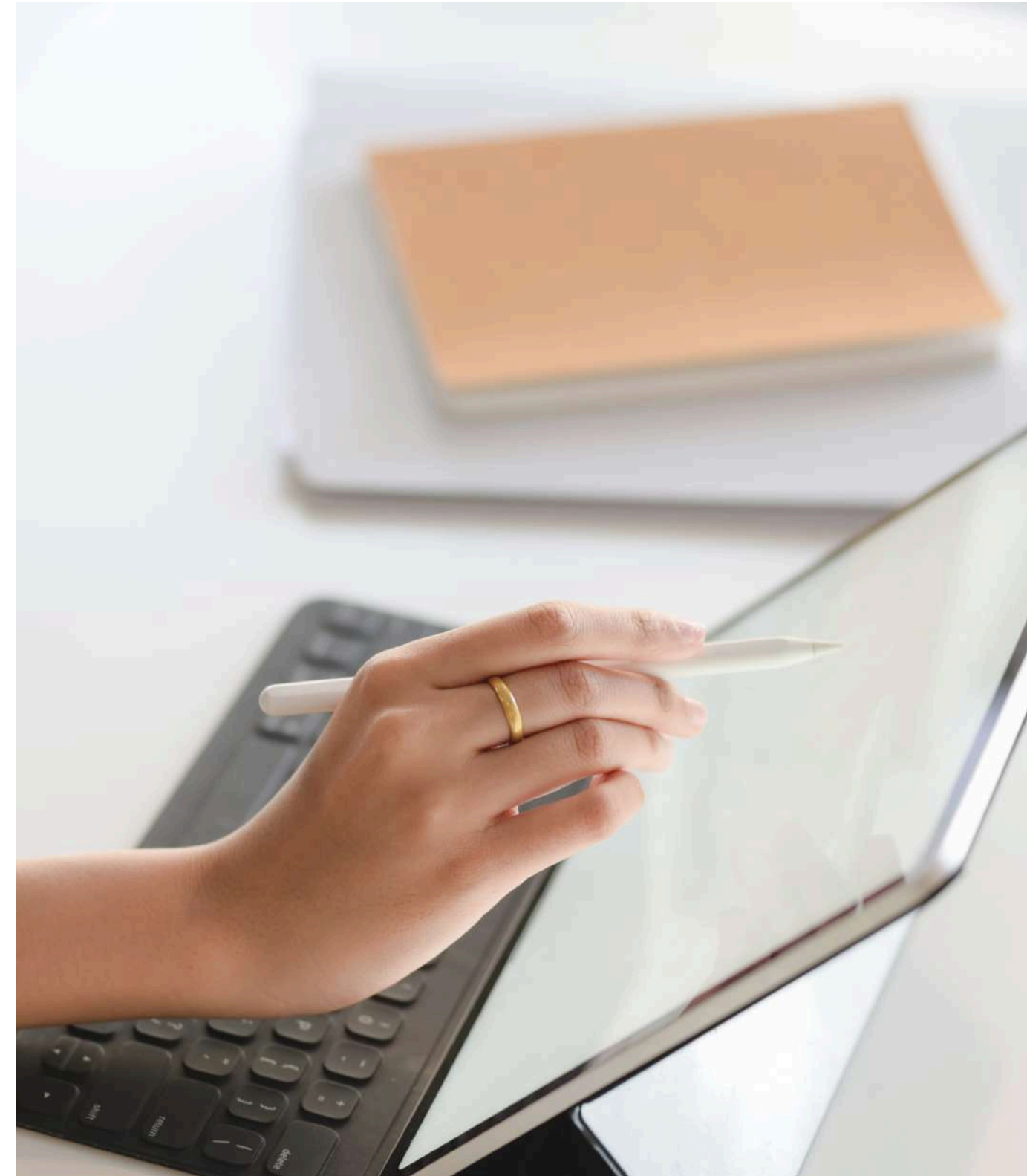
# EMPLOYEES TABLE

```
1 CREATE TABLE Employees (  
2     EmployeeID INT PRIMARY KEY,  
3     Name VARCHAR(100) NOT NULL,  
4     Position VARCHAR(50) NOT NULL,  
5     Email VARCHAR(100) NOT NULL  
6* )  
SQL> /
```



# PROJECTS TABLE

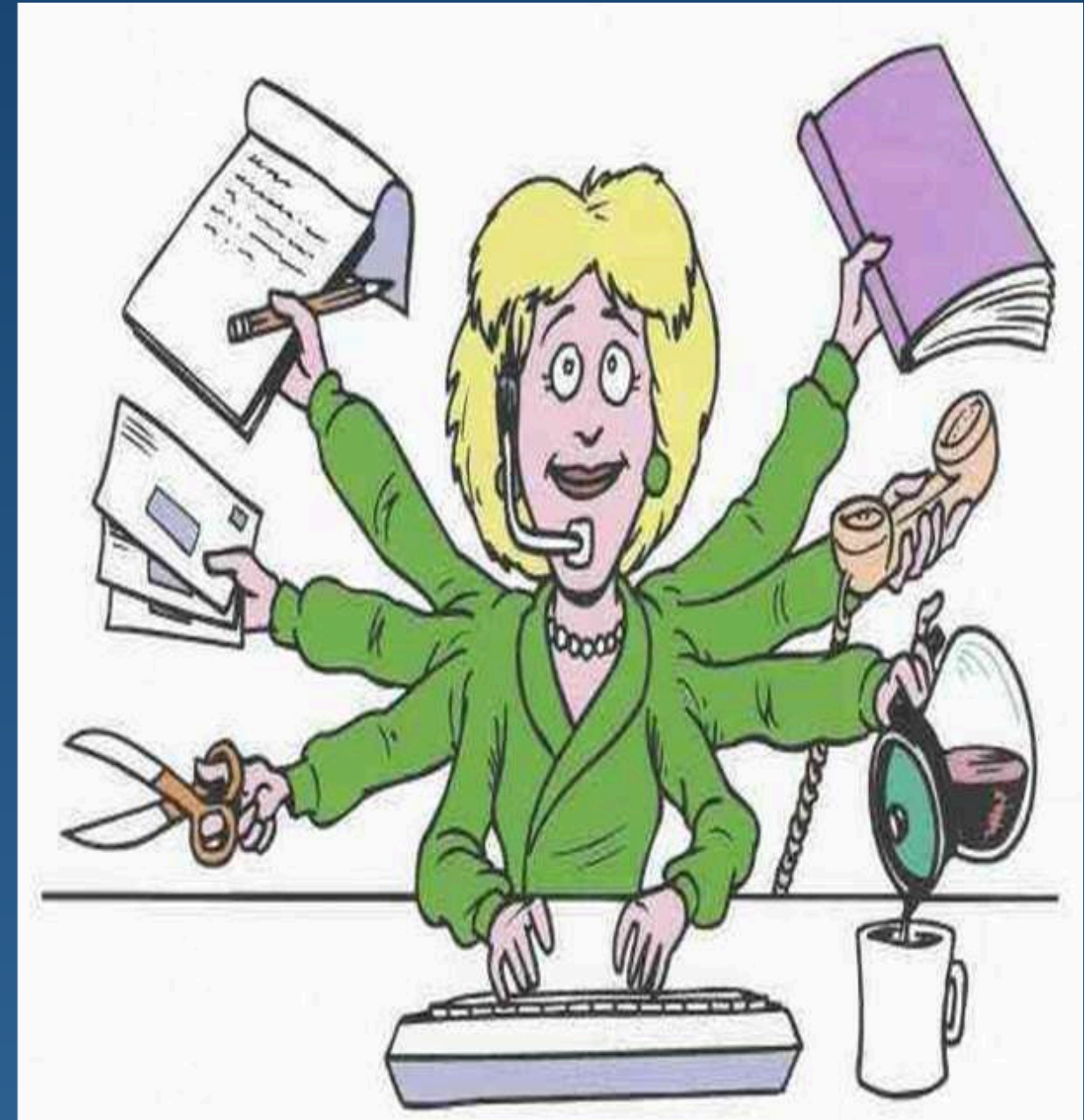
```
1 CREATE TABLE Projects (  
2   ProjectID INT PRIMARY KEY,  
3   ProjectName VARCHAR(100) NOT NULL,  
4   StartDate DATE NOT NULL,  
5   EndDate DATE NOT NULL,  
6   Status VARCHAR(50) NOT NULL  
7* )  
SQL> /  
  
Table created.
```





# TASKS TABLE

```
1 CREATE TABLE Tasks (  
2     TaskID INT PRIMARY KEY,  
3     ProjectID INT,  
4     TaskName VARCHAR(100) NOT NULL,  
5     StartDate DATE NOT NULL,  
6     EndDate DATE NOT NULL,  
7     Status VARCHAR(50) NOT NULL,  
8     FOREIGN KEY (ProjectID) REFERENCES Projects(ProjectID)  
9* )  
SQL> /
```





# ALLOCATIONS TABLE

```
1 CREATE TABLE Allocations (  
2   AllocationID INT PRIMARY KEY,  
3   EmployeeID INT,  
4   TaskID INT,  
5   AllocationDate DATE NOT NULL,  
6   HoursAllocated INT NOT NULL,  
7   FOREIGN KEY (EmployeeID) REFERENCES Employees(EmployeeID),  
8   FOREIGN KEY (TaskID) REFERENCES Tasks(TaskID)  
9* )  
SQL> /  
  
Table created.
```





# Conclusion



- In the phase-1 of project we have successfully created following tables:
  1. Employees table
  2. Projects table
  3. Tasks Table
  4. Allocation Table

In IT project management and resource allocation system boosts efficiency by optimizing resource use, enhancing collaboration and providing real-time insights. This leads to better project satisfaction and growth and success.



The background of the slide is a blurred office scene. It features a laptop keyboard in the lower-left corner, a white calculator on a desk in the center-left, and various papers with charts and graphs scattered around. In the upper-right, there's a small potted plant. A dark blue semi-transparent rectangle is overlaid on the right side of the image, containing the text and decorative elements.

# Thank You

