Aum Sri Sai Ram

Office Management System

Problem Statement:

- The office management system manages various aspects of office functions, including employee records, meeting schedules, task assignments, managing the documents, reports and resource allocation. The goal is to enhance overall productivity, communication, and coordination within the office environment.
- Each aspect has many fields. Employee management stores the employee details such as name, designation, contact information and employee history. A unique employee ID is given for each member.
- Meeting management allows the employees to schedule meetings with date and time and location. It also takes care of the attendance and their responses.
- The office also provides many resources to their employees. The resources and their availability are kept tracked. It also enables employees to request for the resources with specific time and date. The resources attributes consist of resources ID, name of the resources, employee ID asked for the resources, dates of the resources provided.
- Manager provides the resources.
- The office also gives tasks to each employee. So, there is a task assignment and tracking. It
 allows supervisors to assign tasks to specific employees. And also includes a deadline for it.
 The attributes for the tasks are task provided by, provided to, date of assigning, date of
 deadline.
- Office also allows employees to upload, share, and organise documents related to projects and tasks. There is a service provided for employees to manage these documents also.
- Office allows employees to give reports of their project such as tasks completed and tasks pending. And the supervisor can see the employee's performance through these activities.

Entities for My Problem:

• **Person** -Employee

• **Event** -Task, Meeting, Meeting Attendees

Object - Resource, Resource_Request

• Concept - Document, Report

Attributes for my entities:

Entity_Type	Attributes	Туре
Employee	Emp_ID(Primary Key)	Simple
(Strong)	Emp Name	Composite
	Designation	Simple
	Contact Info	Simple
	Emp History	Simple
	Manager_ID	Simple
Task	Task_id(Primary Key)	Simple
(Strong)	Task_Name	Single
-	Description	Required
	Deadline	Simple
	Priority	Simple
	Status	Single
	Emp_ID	Simple
Meeting	Meeting_ID(Primary Key)	Simple
(Strong)	Meeting_Date	Simple
	Meeting_Time	Simple
	Location	Composite
Meeting_Attendees	Meeting_ID	Simple
	Emp ID	Simple Simple
	Response	Required
Resource	Resource_ID(Primary Key)	Simple
(Strong)	Resource_Name	Multivalued
	Availability_Status	Required
Resource_Request	Request_ID(Primary Key)	Simple
(Strong)	Resource_ID	Simple
	Emp_ID	Simple
	Request_Date	Simple
	Request_Time	Simple
Document	Document_ID(Primary Key)	Simple
(Strong)	Document_Name	Composite
	Document_Path	Optional
	Upload_Date	Simple
	Emp_ID	Simple
Report	Report_ID(Primary Key)	Simple
(Strong)	Report Name	Required
- - ,	Description	Required
	Report_Date	Required
	Emp_ID	Required
Employee_Resource	Emp ID	Simple
	Resource ID	Simple
	Date	Simple

THE RELATIONSHIP SETS IN MY DESIGN ARE LISTED BELOW:

- manages: relating to employees.
- discussing: ternary relationship for employee, task and meeting.
- asking: employee asking for a resource_req.
- uploading: employee uploading document.
- making: employee making report.
- **checking:** employee checking available resources.
- required for: resource required for meeting.
- for an: report for meeting.
- made for: report made for task.
- attending: meeting attendees attending the meeting and response given for the meeting.

RELATIONS/TABLES:

- Employee(Emp ID,Emp Name,Designation,Contact Info,Emp History)
- TASK(<u>Task_id</u>,Task_Name,Description,Deadline,Priority,Status,Emp_ID)
- Meeting(Meeting_ID, Meeting_Date, Meeting_Time, Location)
- Meeting_Attendees(Meeting ID,Emp ID,Response)
- Resource(Resource ID, Resource Name, Availability Status)
- Resource Request(Request ID,Resource ID,Emp ID,Request Date,Request Time)
- **Document**(<u>Document ID</u>,Document_Name,Document_Path,Upload_Date,Emp_ID)
- Report(Report ID, Report Name, Description, Report Date, Emp ID)
- Employee_Resource(Emp_ID,Resource_ID,Date)