

# Table Design

### Employee table

Field Name	Data Type	Key	Description
empid	varchar(20)	Primary key	unique id
password	varchar(45)	unique	Password for login
fname	varchar(45)	Not null	Employee first name field
lname	varchar(45)	Not null	Employee last name field
address	varchar(45)	Not null	Employee address
Phone_num	int	Not null	Employee phone number
dob	date	Not null	Date of birth
doj	date	Not null	Date of joining
email	varchar(30)	unique	Employee email id

### Department table

Field name	Data type	Key	Description
did	varchar(20)	Primary key	Unique id
dname	varchar(45)	Not null	Department name
description	varchar(45)	Not null	Department description

### Role table

Field name	Data type	Key	Description
Rid	varchar(20)	Primary key	Unique id
Rname	varchar(45)	Not null	Role name
description	varchar(45)	Not null	Description about the role

### Employee Allocation table

Field name	Data type	Key	Description
empallid	varchar(20)	Primary key	Unique id
desirol_id	varchar(45)	Foreign Key	References of Role allocation table
did	varchar(45)	Foreign Key	Department id from department table

### Designation table

Field name	Data type	Key	Description
desig_id	int	Primary key	Unique id
desig_type	varchar(20)	Not null	Designation type
Salary	Int	Not null	Salary details

### Role allocation table

Field name	Data type	Key	Description
desirol_id	varchar(20)	Primary key	Unique id
desig_id	int	Not null	References of designation table
rid	varchar(20)	Foreign Key	References of role table

### Task table

- Predefined tasks are allocated for each members.

Field name	Data type	Key	Description
task_id	int	Primary key	Unique id
task_det	varchar(20)	Not null	Task details
pid	varchar(20)	Not null	References of project table
desirol_id	varchar(20)	Foreign Key	References of role allocation table

### Task Association

Field name	Data type	Key	Description
taid	varchar(20)	Primary key	Unique id
task_det	varchar(20)	Not null	Task details
task_id	varchar(20)	Foreign Key	References of task table
empid	varchar(20)	Foreign Key	References of employee table
did	varchar(20)	Foreign Key	References of department table

### Project table

Field name	Data type	Key	Description
Pid	varchar(20)	Primary key	Unique id
Ptitle	varchar(45)	Not null	project name
start_date	date	Not null	Starting date
end_date	date	Not null	Ending date
pdet	varchar(45)	Not null	Details of project
status	binary	Not null	Status of the project
cid	varchar(20)	Foreign Key	References of client table

### Status table

Field name	Data type	Key	Description
Status_id	varchar(20)	Primary key	Unique id
pid	varchar(20)	Not null	References of project table
task_id	varchar(20)	Not null	References of task table
status_des	varchar(45)	Not null	Description of the status
status	binary	Not null	Status of the project
cid	varchar(20)	Foreign Key	References of client table

### Client table

Field name	Data type	Key	Description
Cid	varchar(20)	Primary key	Unique id
Cname	varchar(45)	Not null	Details of client
password	varchar(45)	unique	Password for login
pgm_lang	varchar(20)	Not null	Language preferred
frond_end_lang	varchar(20)	Not null	Fronnd end language client need
back_end	varchar(20)	Not null	back end language client need
contact	int	Not null	Contact number of client
email	varchar(20)	unique	Email id of client
expected_end_date	date	Not null	Expected date on which the project to finish
description	varchar(45)	Not null	Additional details of the project

### Team member

Field name	Data type	Key	Description
mid	varchar(20)	Primary key	Unique id
empid	varchar(20)	Foreign Key	References of employee table
pid	varchar(20)	Foreign Key	References of project table
Dept_id	varchar(20)	Foreign Key	References of department table
Task_id	varchar(20)	Foreign Key	References of task table

### Team Lead

Field Name	Data Type	Key	Description
Tid	varchar(20)	Primary key	Unique id
empid	varchar(20)	Not null	References of employee table
pid	varchar(20)	Foreign Key	References of project table
Cid	varchar(20)	Foreign Key	References of client table
mid	varchar(20)	Foreign Key	References of team member table
Dept_id	varchar(20)	Foreign Key	References of department table
Task_id	varchar(20)	Foreign Key	References of task table