EMPLOYEE MANAGEMENT SYSTEM

# CREATION OF TABLE:

## Supervisor:

create table supervisor(

Id int not null unique, Name varchar(30)

); CREATE TABLE

## Department:

create table Department(

Dept\_No int not null unique, Dept\_Name varchar(30)

); CREATE TABLE

## Projects:

create table Projects(

Project\_code int not null unique, Project\_Name varchar(30)

); CREATE TABLE

## Employee:

create table Employee(

Emp\_no int not null unique, Emp\_Name varchar(30), Gender varchar(10), Designation varchar(30),

PAN\_NO varchar(30) not null unique, DOB date,

Date\_of\_joining date,

Basic\_pay int, Skill varchar(100)

); CREATE TABLE

# CREATION OF RELATIONAL TABLE:

## Department-Employee:

create table rt\_de(

Dept\_no int, Emp\_no int,

Primary key(Emp\_no), constraint fk\_emp foreign key(Emp\_no)

references employee(Emp\_no), constraint fk\_dep

foreign key(Dept\_no)

references department(Dept\_no)

); CREATE TABLE

## Department-Supervisor:

create table rt\_ds(

Dept\_no int, Id int,

Primary key(Dept\_no), constraint fk\_dep foreign key(Dept\_no)

references department(Dept\_no), constraint fk\_sup

foreign key(ID) references Supervisor(ID)

); CREATE TABLE

## Employee-Supervisor:

create table supervise(

Emp\_no int, ID int,

Primary key(Emp\_no), constraint fk\_emp foreign key(Emp\_no)

references employee(Emp\_no), constraint fk\_sup

foreign key(ID) references Supervisor(ID)

); CREATE TABLE

## Employee-Project:

create table worktime(

Project\_code int, Emp\_no int, Intime date, Outtime date,

primary key(Project\_code), constraint fk\_pro

foreign key(Project\_code) references projects(Project\_code), constraint fk\_wrk

foreign key(Emp\_no) references employee(Emp\_no)

);

CREATE TABLE

## Department-Project:

create table rt\_dp(

Dept\_no int, Project\_code int,

primary key(Project\_code), constraint fk\_dep

foreign key(Dept\_no)

references department(Dept\_no), constraint fk\_pro

foreign key(Project\_code) references projects(Project\_code)

); CREATE TABLE

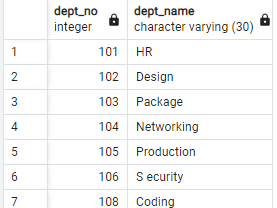
# INSERTION OF DATA IN TABLE:

## Department:

insert into department values(101,'HR'),(102,'Design'),(103,'Package'),(104,'Networking'),(105,'Production'),(106,'S ecurity'),(108,'Coding');

INSERT 0 7

select \* from department;



## Employee:

insert into employee values(1,'Ratish','Male','Developer','QWERT1234Y','1999-05-03','2021-04-05',65000,'Vibing'),(2,'Karthikeyan','Male','HR','ERTYU3456V','2000-03-02','2022-06-05',75000,'Creativity'),

(3,'Thirumurugan','Male','Design','ERERT4546V','2000-01-02','2020-04-23',55000,'Creativity'),

(4,'Arun','Male','Cyber','RTGFT6746V','2001-02-04','2021-06-21',75000,'content\_CREATOR'),

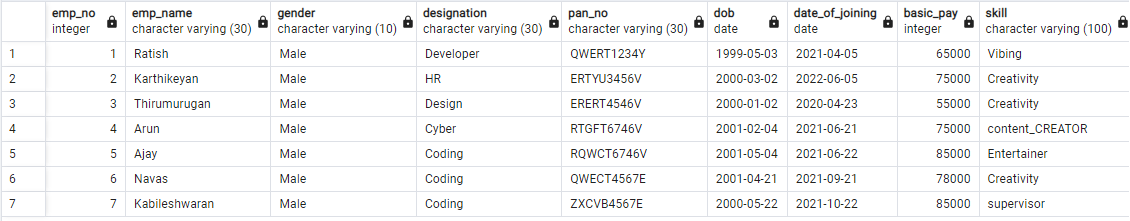
(5,'Ajay','Male','Coding','RQWCT6746V','2001-05-04','2021-06-22',85000,'Entertainer'),

(6,'Navas','Male','Coding','QWECT4567E','2001-04-21','2021-09-21',78000,'Creativity'),

(7,'Kabileshwaran','Male','Coding','ZXCVB4567E','2000-05-22','2021-10-22',85000,'supervisor');

INSERT 0 7

test=# select \* from employee;

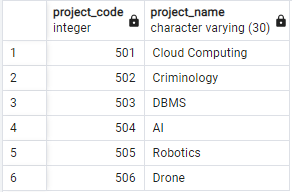


## Projects:

insert into projects values(501,'Cloud Computing'),(502,'Criminology'),(503,'DBMS'),(504,'AI'),(505,'Robotics'),(506,'Drone');

INSERT 0 6

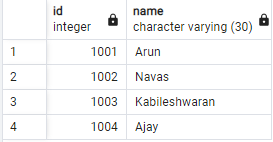
select \* from projects;



## Supervisor:

insert into supervisor values(1001,'Arun'),(1002,'Navas'),(1003,'Kabileshwaran'),(1004,'Ajay');INSERT 0 4

select \* from supervisor;



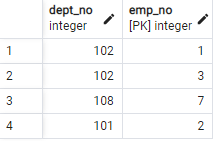
**RELATIONAL TABLE:**

## Department-Employee:

insert into rt\_de values(102,1),(102,3),(108,7),(101,2);

INSERT 0 4

select \* from rt\_de;

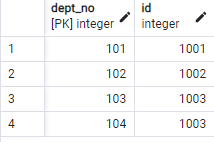


## Department-Supervisor:

insert into rt\_ds values(101,1001),(102,1002),(103,1003),(104,1003);

INSERT 0 4

select \* from rt\_ds;

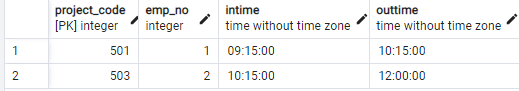


## Worktime:

insert into worktime values(501,1,'9:15','10:15'),(503,2,'10:15','12:00');

INSERT 0 2

select \* from worktime;

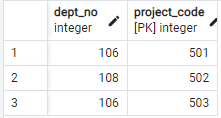


## Department-Projects:

insert into rt\_dp values(106,501),(108,502),(106,503);

INSERT 0 3

select \* from rt\_dp;

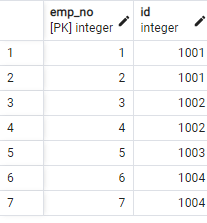


## Supervise:

insert into supervise values(1,1001),(2,1001),(3,1002),(4,1002),(5,1003),(6,1004),(7,1004);

INSERT 0 7

select \* from supervise;



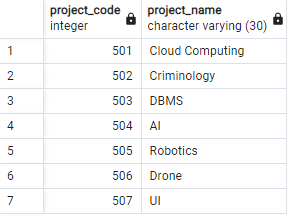
# QUERIES:

## Add an record in projects table:

insert into projects values(507,'UI');

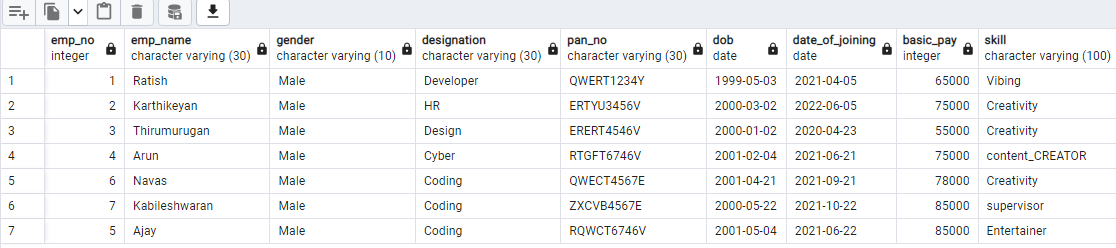
INSERT 0 1

select \* from projects;



1. ***Update Salary=85000 in Employee table where Name=’Ajay’:*** update employee set basic\_pay=85000 where emp\_name='Ajay'; UPDATE 1

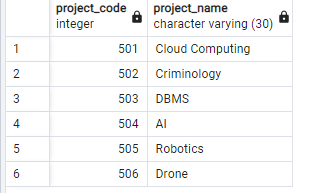
Select \* from employee;



## Delete an record in Projects table:

delete from projects where project\_code=507; DELETE 1

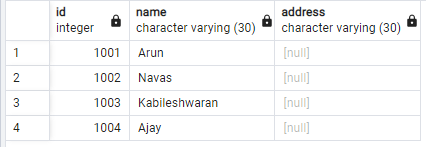
Select \* from projects;



## Add a column Address in Supervisor table:

alter table supervisor add column address varchar(30); ALTER TABLE

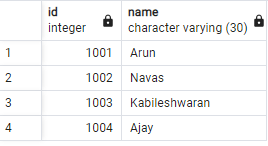
Select \* from supervisor;



## Delete column Address in Supervisor table:

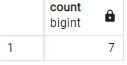
alter table supervisor drop column address; ALTER TABLE

Select \* from Supervisor;



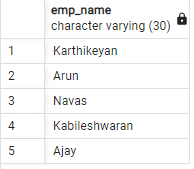
## Write a query to find count of male employees in the Employee table:

select COUNT(\*) from employee where gender='Male';



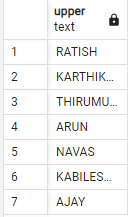
## 7)Write a query to find the employee whose Salary is between 70000 and 100000:

select emp\_name from employee where basic\_pay between 70000 and 100000;



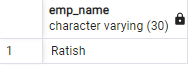
## 8)Write a query to display Employee name in upper case:

select UPPER(emp\_name) from employee;



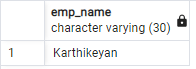
## 9)Write a query to display Employee whose age is equal to 23:

select emp\_name from employee where extract(year from age(current\_date,DOB))=23;



## 10)Write a query to find the employees working in the department ‘HR’:

select emp\_name from employee where designation='HR';



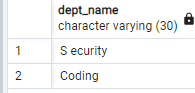
## 11)Write a query to retrieve first four characters of Employee from Employee table:

select substring(emp\_name,1,4) as name from employee;



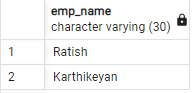
## 12)Write a query to find Department which has linked with a Project in it:

select dept\_name from department where dept\_no in (select dept\_no from rt\_dp);



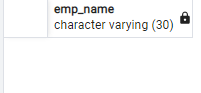
## 13)Write a query to find employees for the supervisor named ‘Arun’:

select emp\_name from employee where emp\_no in(select emp\_no from supervise where id=(select id from supervisor where name='Arun'));



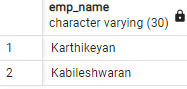
## 14)Write a query to find all female Employees in Employee table:

select emp\_name from employee where gender='Female';



## 15)Write a query to find all Employees whose name starts with ‘K’:

select emp\_name from employee where emp\_name like 'K%';

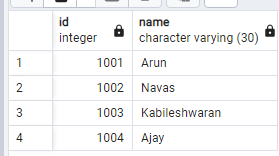


## 16)Create a new table which consist of the data of the Supervisor table:

create table newtable as select \* from supervisor;

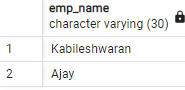
SELECT 4

select \* from newtable;



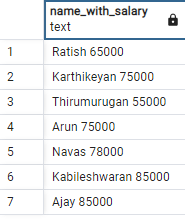
## 17)Write a query to find which Employee is getting high paid salary:

select emp\_name from employee where basic\_pay=(select MAX(basic\_pay) from employee);



## 18)Write a query to retrieve Emp name and Salary together as Name with Salary from Employee table:

select CONCAT(emp\_name,' ',basic\_pay) as Name\_with\_Salary from employee;



## 19)Write a query to find the age of all employees in Employee table:

select emp\_name,extract(year from age(current\_date,DOB))\*12 + extract(month from age(current\_date,DOB)) as age\_in\_month from employee;

## C:\Users\student\Pictures\Screenshots\q38.png

## 20)Delete all records from newtable:

truncate table newtable; TRUNCATE TABLE