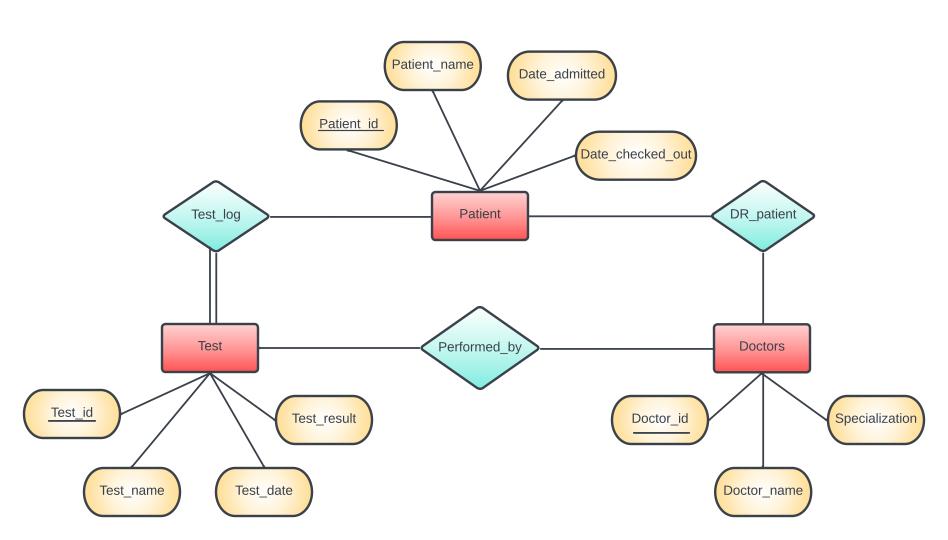
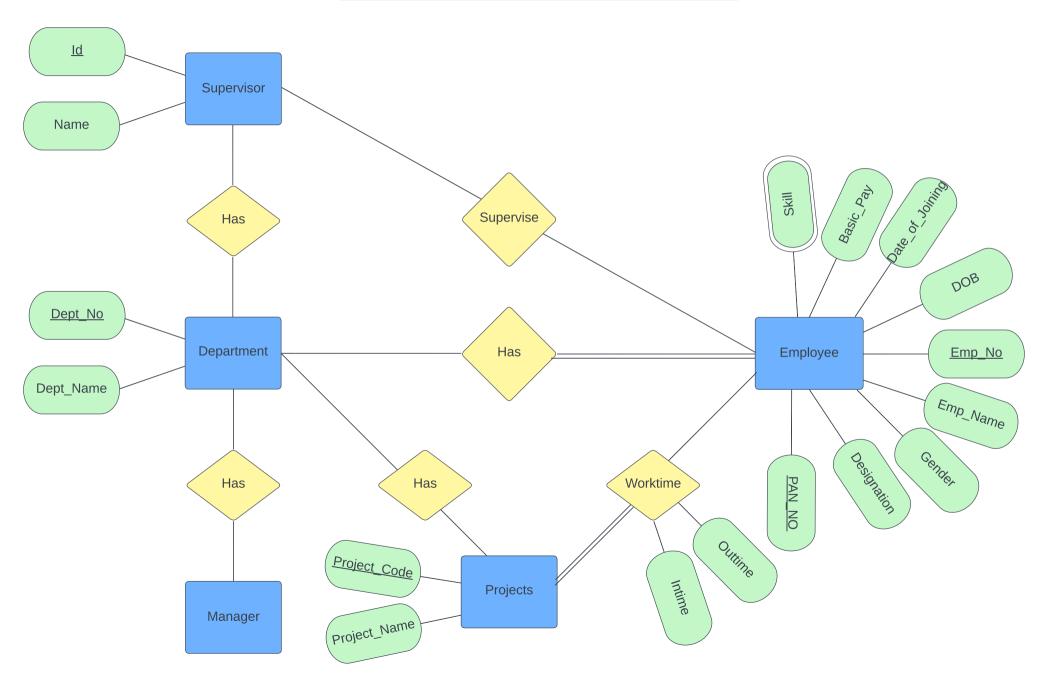
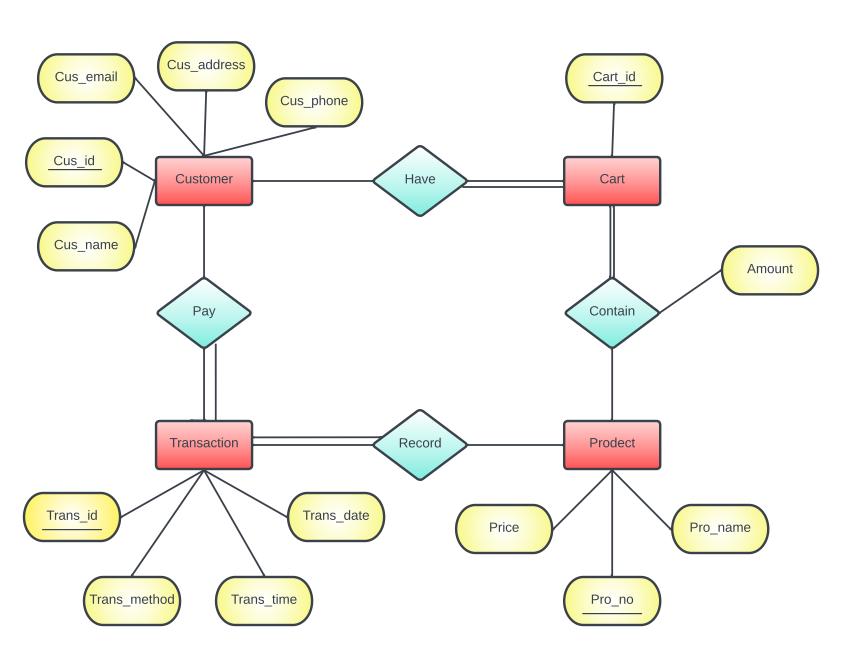
HOSPITAL MANAGEMENT SYSTEM



EMPLOYEE MANAGEMENT SYSTEM



ONLINE SHOPPING MANAGEMENT SYSTEM



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 07

select * from department;

	dept_no integer	dept_name character varying (30) €
1	101	HR
2	102	Design
3	103	Package
4	104	Networking
5	105	Production
6	106	S ecurity
7	108	Coding

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 07

test=# select * from employee;

	emp_no integer €	emp_name character varying (30)	gender character varying (10)	designation character varying (30)	pan_no character varying (30)	dob date	date_of_joining date	basic_pay integer a ■	skill character varying (100)
1	1	Ratish	Male	Developer	QWERT1234Y	1999-05-03	2021-04-05	65000	Vibing
2	2	Karthikeyan	Male	HR	ERTYU3456V	2000-03-02	2022-06-05	75000	Creativity
3	3	Thirumurugan	Male	Design	ERERT4546V	2000-01-02	2020-04-23	55000	Creativity
4	4	Arun	Male	Cyber	RTGFT6746V	2001-02-04	2021-06-21	75000	content_CREATOR
5	5	Ajay	Male	Coding	RQWCT6746V	2001-05-04	2021-06-22	85000	Entertainer
6	6	Navas	Male	Coding	QWECT4567E	2001-04-21	2021-09-21	78000	Creativity
7	7	Kabileshwaran	Male	Coding	ZXCVB4567E	2000-05-22	2021-10-22	85000	supervisor

Projects:

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

INSERT 0 6

select * from projects;

	project_code integer	project_name character varying (30) €
1	501	Cloud Computing
2	502	Criminology
3	503	DBMS
4	504	Al
5	505	Robotics
6	506	Drone

Supervisor:

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

select * from supervisor;

	id integer	name character varying (30)
1	1001	Arun
2	1002	Navas
3	1003	Kabileshwaran
4	1004	Ajay

RELATIONAL TABLE:

Department-Employee:

insert into rt_de values(102,1),(102,3),(108,7),(101,2);

INSERT 04

select * from rt_de;

	dept_no integer	emp_no [PK] integer 🖍
1	102	1
2	102	3
3	108	7
4	101	2

Department-Supervisor:

insert into rt_ds values(101,1001),(102,1002),(103,1003),(104,1003);

INSERT 04

select * from rt_ds;

	dept_no [PK] integer	id integer
1	101	1001
2	102	1002
3	103	1003
4	104	1003

Worktime:

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

INSERT 0 2

select * from worktime;

	project_code [PK] integer	emp_no integer	intime time without time zone	outtime time without time zone
1	501	1	09:15:00	10:15:00
2	503	2	10:15:00	12:00:00

Department-Projects:

insert into rt_dp values(106,501),(108,502),(106,503);

INSERT 03

select * from rt_dp;

	dept_no integer	project_code [PK] integer
1	106	501
2	108	502
3	106	503

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;

	emp_no [PK] integer	id integer
1	1	1001
2	2	1001
3	3	1002
4	4	1002
5	5	1003
6	6	1004
7	7	1004

QUERIES:

1) Add an record in projects table:

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

INSERT 0 1

select * from projects;

	project_code integer	project_name character varying (30) 6
1	501	Cloud Computing
2	502	Criminology
3	503	DBMS
4	504	Al
5	505	Robotics
6	506	Drone
7	507	UI

2) Update Salary=85000 in Employee table where Name='Ajay':

update employee set basic_pay=85000 where emp_name='Ajay';

UPDATE 1

Select * from employee;

=+									
	emp_no integer	emp_name character varying (30)	gender character varying (10)	designation character varying (30) ≜	pan_no character varying (30) 6	dob date	date_of_joining date	basic_pay integer	skill character varying (100)
1	1	Ratish	Male	Developer	QWERT1234Y	1999-05-03	2021-04-05	65000	Vibing
2	2	Karthikeyan	Male	HR	ERTYU3456V	2000-03-02	2022-06-05	75000	Creativity
3	3	Thirumurugan	Male	Design	ERERT4546V	2000-01-02	2020-04-23	55000	Creativity
4	4	Arun	Male	Cyber	RTGFT6746V	2001-02-04	2021-06-21	75000	content_CREATOR
5	6	Navas	Male	Coding	QWECT4567E	2001-04-21	2021-09-21	78000	Creativity
6	7	Kabileshwaran	Male	Coding	ZXCVB4567E	2000-05-22	2021-10-22	85000	supervisor
7	5	Ajay	Male	Coding	RQWCT6746V	2001-05-04	2021-06-22	85000	Entertainer

3)Delete an record in Projects table:

delete from projects where project_code=507;

DELETE 1

Select * from projects;

	project_code integer	project_name character varying (30)
1	501	Cloud Computing
2	502	Criminology
3	503	DBMS
4	504	Al
5	505	Robotics
6	506	Drone

4) Add a column Address in Supervisor table:

alter table supervisor add column address varchar(30);

ALTER TABLE

Select * from supervisor;

	id integer	name character varying (30)	address character varying (30) €
1	1001	Arun	[null]
2	1002	Navas	[null]
3	1003	Kabileshwaran	[null]
4	1004	Ajay	[null]

5) Delete column Address in Supervisor table:

alter table supervisor drop column address;

ALTER TABLE

Select * from Supervisor;

ocioco il olii ocipolitico.,					
	id integer	name character varying (30)			
1	1001	Arun			
2	1002	Navas			
3	1003	Kabileshwaran			
4	1004	Ajay			

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

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

	count bigint	â
1		7

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;

	emp_name character varying (30)
1	Karthikeyan
2	Arun
3	Navas
4	Kabileshwaran
5	Ajay

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';



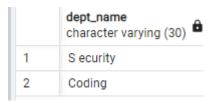
11) Write a query to retrieve first four characters of Employee from Employee table:

select substring(emp_name,1,4) as name from employee;

	name text	â
1	Rati	
2	Kart	
3	Thir	
4	Arun	
5	Nava	
6	Kabi	
7	Ajay	

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);



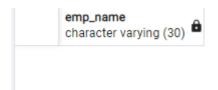
13) Write a query to find employees for the supervisor named 'Arun':

select emp_name from employee where emp_no in(select emp_no from supervise where id=(select id from supervisor where name='Arun'));

	emp_name character varying (30)	â
1	Ratish	
2	Karthikeyan	

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%';

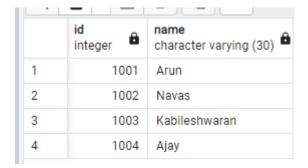
	emp_name character varying (30)	â
1	Karthikeyan	
2	Kabileshwaran	

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

create table newtable as select * from supervisor;

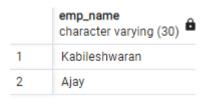
SELECT 4

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;

	name_with_salary text
1	Ratish 65000
2	Karthikeyan 75000
3	Thirumurugan 55000
4	Arun 75000
5	Navas 78000
6	Kabileshwaran 85000
7	Ajay 85000

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;

	emp_name character varying (30)	age_in_month numeric
1	Ratish	282
2	Karthikeyan	272
3	Thirumurugan	274
4	Arun	261
5	Navas	258
6	Kabileshwaran	269
7	Ajay	258

20)Delete all records from newtable:

truncate table newtable;

TRUNCATE TABLE