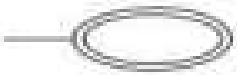
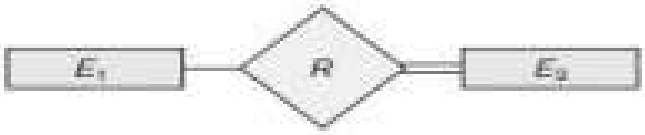
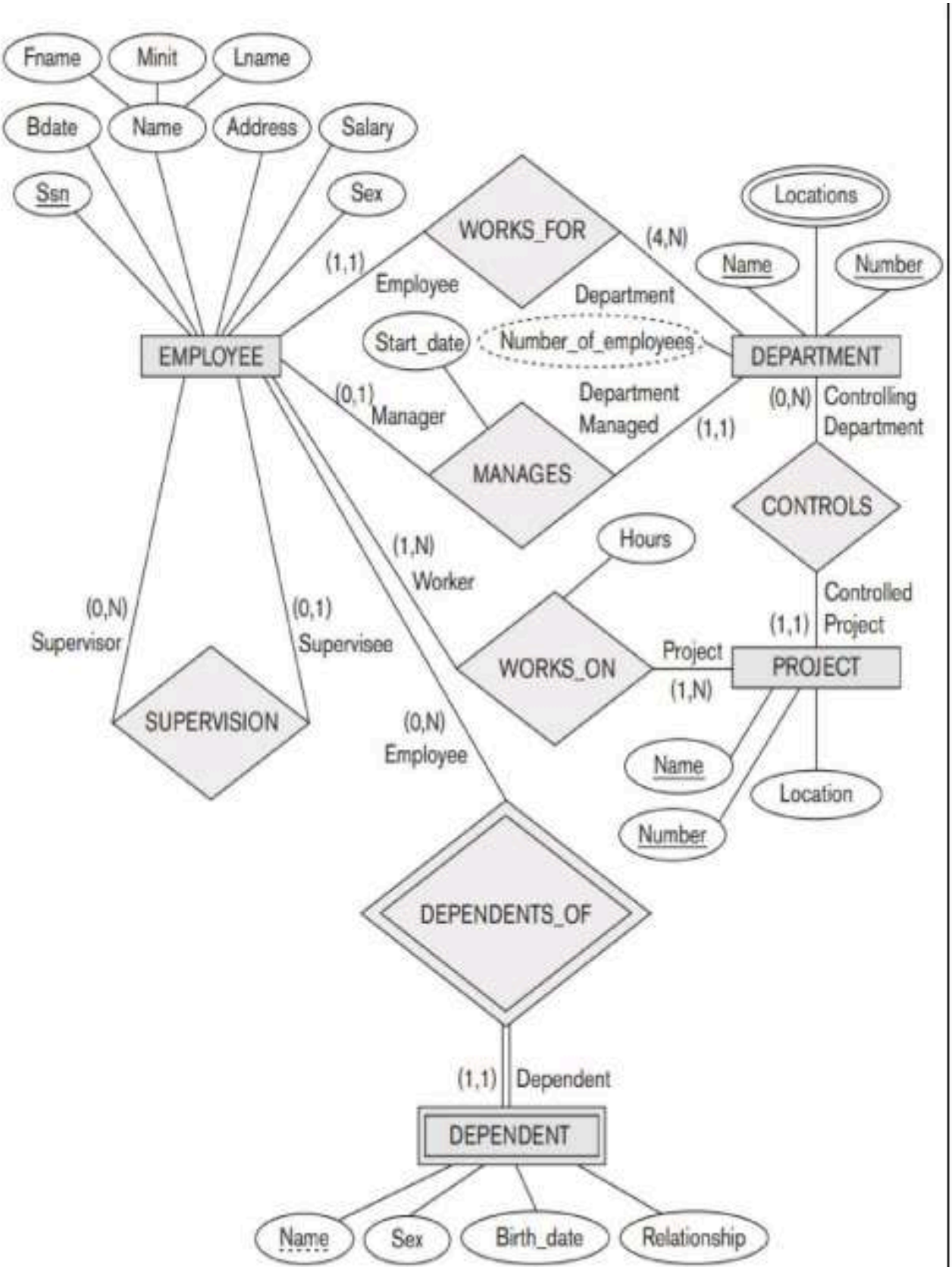
Symbol	Meaning
	Entity
	Weak Entity
	Relationship
	Indentifying Relationship
	Attribute
	Key Attribute
	Multivalued Attribute
	Composite Attribute
	Derived Attribute
	Total Participation of E_2 in R
	Cardinality Ratio 1: N for $E_1 : E_2$ in R
	Structural Constraint (min, max) on Participation of E in R


Fname
Minit
Lname
Bdate
Name
Address
Salary
Ssn
Sex
WORKS_FOR
(4,N)
Locations
Name
Number
(1,1)
Employee
Department
Start_date
Number_of_employees
EMPLOYEE
DEPARTMENT
(0,1)
Manager
Department
Managed
(1,1)
(0,N)
Controlling
Department
MANAGES
CONTROLS
(1,N)
Worker
Hours
Controlled
Project
(1,1)
(0,N)
Supervisor
(0,1)
Supervisee
WORKS_ON
Project
PROJECT
(1,N)
SUPERVISION
(0,N)
Employee
Name
Location
Number
DEPENDENTS_OF
(1,1)
Dependent
DEPENDENT
Name
Sex
Birth_date
Relationship

Employee table creation create table employee(Fname varchar(20) NOT NULL,mintname varchar(10),lname varchar(10) ,ssn char(9) NOT NULL,bdate date,address varchar(30),sex char,salary int,super_ssn char(9),dno int NOT NULL, primary key(ssn),foreign key(super_ssn) references employee(ssn));

Department table creation

create table department(Dname varchar(15) NOT NULL,Dnumber int NOT NULL,mgr_ssn char(9) NOT NULL,mgr_start_date date,primary key(dnumber),foreign key(mgr_ssn) references employee(ssn));

Department location table creation

create table dep_locations(Dnumber int NOT NULL,Dlocation varchar(15) NOT NULL,primary key(dnumber, dlocation),foreign key(dnumber) references department(dnumber));

Project table creation

create table project(Pname varchar(15) NOT NULL,Pnumber int NOT NULL,Plocation varchar(15),Dnum int NOT NULL,primary key(pnumber),foreign key(dnum) references department(dnumber));

Works on table creation

create table works_on(Essn char(9) NOT NULL,Pno int NOT NULL,hours decimal(3,1) NOT NULL,primary key(essn,pno),foreign key(pno) references project(pnumber));

Dependent table creation

create table dependent(Essn char(9) NOT NULL,dependent_name varchar(15) NOT NULL,bdate date,relationship varchar(8),primary key(essn,dependent_name),foreign key(essn) references employee(ssn));

1) select * from department; **2**)dname,dnumber **from** department; **3)**select pname,plocation **from** project;**4)** Retrieve name, minit, last name salary **from** employee table **5)**select fname, mintname, lname, salary **from** employee; **6)** select bdate,addressfrom employee **where** fname='Manoj'; **7)** select pname ,dnumfrom project **order by** dnum asc; **8)** select fname, ssn,address from employee **where** salary>10000 **order by** fname asc; **9)** select dno,**count(*),avg(salary)**from employee **group by** dno; **10)** select dno,min(salary)from employee **group by** dno **having** count(*)>1; **11)** select **sum(salary),max(salary),min(salary),avg(salary**)from employee; **12)** select fname,1.1*salaryfrom project,employee,works_onwhere project.pnumber=works_on.pno **and** Works_on.essn=employee.ssn and pname='SQL'; **13)** select *from employeewhere dno='1' **or** dno='5'; **14)** select *from employeewhere fname **like** 'H%' or fname like '_a%' or fname like '_e%'; **15)** select * from employee where salary **between** 15000 and 30000; **16)** select distinct essnfrom works_on **where** pno in(1,4,5); **17) List the employee who works in the same department of Praveen**.select fnamefrom employeewhere dno=(select dno from employee where fname='Praveen'); **18)** select fnamefrom employeewhere salary>(select salary from employee where fname='Gowtham'); **19)** select fnamefrom employeewhere salary>all(select salary from employee where dno='5'); **20)**select fname from employeewhere **not** exists(select *from dependent where ssn=essn); **21)** select fnamefrom employeewhere salary<(select max(salary) from employee); **22)** select fnamefrom employeewhere ssn **in**(select mgr_ssn from department); **23)** select * from employee;**update** employee set address='Tumkur',lnamevar='T'where ssn='15516006'; **24)** select * from project;**alter** table projectrename to company_project;select * from company_project; **25)** select * from dependent;**delete** from dependentwhere dependent_name='Chethan';select * from dependent;

create view

create view company_department asselect fname,mintname,lnamevar,pname,plocation,dnofrom employee,company_project,works_onwhere employee.ssn=works_on.essn and company_project.pnumber=works_on.pno;select * from company_department;

26) select fname,lnamefrom company_departmentwhere pname='web'; **27)** Delete the company_department view.drop view company_department;select *from company_department;

1) Create table called emp, it includes name,id,address .

create table emp(name char(20),id int,address char(30));

Insert values into the emp table.

insert into emp values('pooja','101','banglore');
insert into empvalues('geetha','102','manglore');
insert into emp values('roopa','103','mysore');
select * from emp;
2) Apply commit command to the emp table (note:-uncheck the auto-commit check box in oracle).commit;
3) Again insert the some values into the emp table.
Insert into empvalues(‘radha’,’104’,’hubli’);
insert into emp values(‘kavya’,’105’,’shivamogga');
select * from emp;
4)Apply the rollback command to the emp table.rollback;