use db;

/\*create a table Dept(DeptNo\*,Dname,Loc)\* and insert values\*/

create table Dept(

DeptNo int primary key,

Dname varchar(20),

Loc varchar(20));

insert into Dept values(10,"Accounts","Bangalore"),

(20,"IT","Delhi"),

(30,"Production","Chennai"),

(40,"Sales","Hyd"),

(50,"Admin","London");

/\* create a table Dept(EmpNo\*,Ename,sal,HireDate,comission,DeptNo,Mgr) and insert values\*/

create table Emp(

EmpNo int primary key,

Ename varchar(100),

sal int,

Hire\_Date date,

commission int,

DeptNo int,

Mgr int,

foreign key(Mgr) references Emp(EmpNo),

foreign key (deptno) references dept(Deptno) );

insert into Emp values (1001,"Sachin",19000,"1980-01-01",2100,20,Null),

(1002,"Kapil",15000,"1970-01-01",2300,10,NULL),

(1003,"Stefen",12000,"1990-01-01",500,20,NULL),

(1004,"Williams",9000,"2001-01-01",Null,30,NULL),

(1005,"John",5000,"2005-01-01",Null,30,Null),

(1006,"Dravid",19000,"1985-01-01",2400,10,NULL),

(1007,"Martin",21000,"2000-01-01",1040,NULL,NULL);

select \* from Emp; /\*"Since the Emp table contains the foreign key Mgr which is selrefrential foreign key refering

to EmpNo of Manager we firt insert NULL value then update the actual value" \*/

update Emp set Mgr=1003 where EmpNo in (1001,1002);

update Emp set Mgr=1007 where EmpNo in (1003,1004,1006);

update Emp set Mgr=1006 where EmpNo = 1005;

select \* from Emp;

/\*Select employee details of dept number 10 or 30 \*/

select \* from Emp where deptno = 10 or deptno = 30;

/\*2)Write a query to fetch all the dept details with more than 1 Employee.\*/

select d.\*

from dept d join Emp E on d.deptno=E.deptNo

group by d.deptNo

having count(empno)>1;

/\* 3)Write a query to fetch employee details whose name starts with the letter “S”\*/

select \* from Emp

where Ename like "S%";

/\*4) Select Emp Details Whose experience is more than 2 years\*/

select \* from Emp E

where timestampdiff(year,E.Hire\_date,curdate()) >2; -- if(currentdate-hiring date of Employee)

/\* 5)Write a SELECT statement to replace the char “a” with “#” in Employee Name ( Ex: Sachin as S#chin)\*/

select replace(Ename,'a','#') as Replaced

from emp;

/\*6)Write a query to fetch employee name and his/her manager name. \*/

select E.Ename,q.Ename

from Emp E,(select \* from Emp S) as q

where E.mgr=q.Empno;

/\*7)Fetch Dept Name , Total Salry of the Dept \*/

select D.deptno,sum(sal)

from Dept D natural join Emp E

group by D.DeptNo;

/\*8)Write a query to fetch ALL the employee details along with department name,

department location, irrespective of employee existance in the department.\*/

select \*

from Dept D natural join Emp E ;

/\*9)Write an update statement to increase the employee salary by 10 %\*/

update Emp E set E.sal=(E.sal+0.1\*E.sal);

select \* from Emp;

/\*10)Write a statement to delete employees belong to Chennai location. William and John are deleted\*/

delete from emp E where E.deptno in (select D.deptno from dept D where D.loc ="Chennai");

select \* from Emp;

/\*11)Get Employee Name and gross salary (sal + comission) \*/

select E.Ename,(E.sal+E.commission) from Emp E ;

/\*12)Increase the data length of the column Ename of Emp table from 100 to 250 using ALTER statement\*/

alter table Emp

modify Ename varchar(250);

desc emp;

/\*13) Write query to get current datetime\*/

select curdate();

/\*14)Write a statement to create STUDENT table, with related 5 columns\*/

create table Student(

Stdid int primary key,

SName varchar(20),

Gender varchar(6),

Sem varchar(20),

Phonno varchar(10),

collageName varchar(50));

/\*15) Write a query to fetch number of employees in who is getting salary more than 10000\*/

select count(E.Empno) as Numbers

from Emp E

where E.sal>10000;

/\*16) Write a query to fetch number of employees in each location\*/

select count(E.Empno),D.loc

from Emp E Natural join Dept D

group by D.loc;

/\*17)Write a query to display emplyee names in descending order\*/

select Ename from Emp

order by Ename desc;

/\*18) Write a statement to create a new table(EMP\_BKP) from the existing EMP table \*/

create table EMP\_BKP as select \* from EMP;

select \* from EMP\_BKP;

/\*19) Write a query to fetch first 3 characters from employee name appended with salary.\*/

select concat(left(E.Ename,3),E.sal)

from Emp E;

/\* 21)Get the details of the employees whose name starts with S\*/

select \* from Emp E where E.Ename like "S%";

/\*22)Get the details of the employees who works in Bangalore location\*/

select \* from Emp E Natural join Dept D where loc="Bangalore";

/\* 23) Write the query to get the employee details whose name started within any letter between A and K\*/

select \* from Emp E

where E.Ename like "A%" or E.Ename like "k%";

/\*24) Write a query in SQL to display the employees whose manager name is Stefen\*/

select \*

from Emp E

where E.mgr = (select E2.EmpNo from Emp E2 where E2.Ename="Stefen");

/\*25) Write a query in SQL to list the name of the managers who is having maximum number of employees working under him\*/

select E.Ename,E.Empno

from Emp E

where E.Empno in( select S.m

from (select mgr as m,count(mgr) as c from Emp group by mgr) S

where S.c = (select max(S.c)

from (select mgr as m,count(mgr) as c from Emp group by mgr) S));

/\*26) Write a query to display the employee details, department

details and the manager details of the employee who has second highest salary?

select \* from Emp E1

where E1.Empno,E1.sal in (select distinct E.mgr,E.sal from Emp E order by E.sal desc

offset 1 limit 1);\*/

select \*

from Emp E2

where E2.sal in (select max(sal) from Emp E where E.sal not in (select max(sal) from Emp));

/\*27) Write a query to list all details of all the managers\*/

select \* from Emp E

where E.Empno in (select E2.mgr from Emp E2);

/\*28) Write a query to list the details and total experience of all the managers\*/

select E.\*,timestampdiff(year,hire\_date,curdate()) from Emp E

where E.Empno in (select E2.mgr from Emp E2);

/\*29) Write a query to list the employees who is manager and takes commission less than 1000 and works in Delhi\*/

select \* from Emp E

where E.Empno in (select E2.mgr from Emp E2)and E.commission <1000;

/\*30) Write a query to display the details of employees who are senior to Martin \*/

select \*

from Emp E2

where E2.Hire\_date<(select E.Hire\_date from Emp E where E.EName="Martin");