**Dbms assignment-1**

**Question-1**

**SQL> create table company1 (DepartmentId Number(4),DeptName varchar2(20),Manager**

**Id Number(4),Manager\_name varchar2(20),LocationId number(4));**

**Table created.**

SQL> insert into company1(DepartmentId,DeptName,ManagerId,Manager\_name,LocationI

d) values ('1','management','10','vaishali','100');

1 row created.

SQL> insert into company1(DepartmentId,DeptName,ManagerId,Manager\_name,LocationI

d) values ('2','human\_resource','20','tanya','200');

1 row created.

SQL> insert into company1(DepartmentId,DeptName,ManagerId,Manager\_name,LocationI

d) values ('3','marketing','30','sreyasi','300');

1 row created.

SQL> insert into company1(DepartmentId,DeptName,ManagerId,Manager\_name,LocationI

d) values ('4','marketing','40','ritika','400');

1 row created.

SQL> insert into company1(DepartmentId,DeptName,ManagerId,Manager\_name,LocationI

d) values ('5','IT','40','ritika','500');

1 row created.

SQL> select \* from company1;

DEPARTMENTID DEPTNAME MANAGERID MANAGER\_NAME LOCATIONID

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1 management 10 vaishali 100

2 human\_resource 20 tanya 200

3 marketing 30 sreyasi 300

4 marketing 40 ritika 400

5 IT 40 ritika 500

**SQL> select DepartmentId,DeptName from company1;**

DEPARTMENTID DEPTNAME

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1 management

2 human\_resource

3 marketing

4 marketing

5 IT

**SQL> select DeptName,Manager\_Name from company1;**

DEPTNAME MANAGER\_NAME

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management vaishali

human\_resource tanya

marketing sreyasi

marketing ritika

IT ritika

**Question-2**

**SQL> create table friend (name varchar2(15),address varchar2(30),mobileno number**

**(10),highest\_degree varchar2(6),marks number(3));**

**Table created.**

SQL> insert into friend (name,address,mobileno,highest\_degree,marks) values ('ta

nya','ballabgarh','9811733465','msc','90');

1 row created.

SQL> insert into friend (name,address,mobileno,highest\_degree,marks) values ('ta

nya','ballabgarh','9811733465','msc','90');

SQL> select \* from friend;

NAME ADDRESS MOBILENO HIGHES MARKS

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tanya ballabgarh 9811733465 msc 90

ritika bdarpur 9834567239 mca 95

sreyasi noida 9834345678 mba 96

shikha kirtingar 9834348637 mba 93

mariam laxmingar 9834348578 msc 92

sumit kirtingar 9834348556 mca 98

ifra delhi 9834348567 mca 93

7 rows selected.

SQL> desc friend;

Name Null? Type

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NAME VARCHAR2(15)

ADDRESS VARCHAR2(30)

MOBILENO NUMBER(10)

HIGHEST\_DEGREE VARCHAR2(6)

MARKS NUMBER(3)

**SQL> select name,highest\_degree,marks from friend;**

NAME HIGHES MARKS

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tanya msc 90

ritika mca 95

sreyasi mba 96

shikha mba 93

mariam msc 92

sumit mca 98

ifra mca 93

7 rows selected.

**SQL> select \* from friend order by name;**

NAME ADDRESS MOBILENO HIGHES MARKS

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ifra delhi 9834348567 mca 93

mariam laxmingar 9834348578 msc 92

ritika bdarpur 9834567239 mca 95

shikha kirtingar 9834348637 mba 93

sreyasi noida 9834345678 mba 96

sumit kirtingar 9834348556 mca 98

tanya ballabgarh 9811733465 msc 90

7 rows selected.

SQL> insert into friend values('pooja','faridabad','9876543210','msc','93');

1 row created.

SQL> select \* from friend;

NAME ADDRESS MOBILENO HIGHES MARKS

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tanya ballabgarh 9811733465 msc 90

ritika bdarpur 9834567239 mca 95

sreyasi noida 9834345678 mba 96

shikha kirtingar 9834348637 mba 93

mariam laxmingar 9834348578 msc 92

sumit kirtingar 9834348556 mca 98

ifra delhi 9834348567 mca 93

pooja faridabad 9876543210 msc 93

8 rows selected.

**SQL> delete from friend where name like 'p%';**

1 row deleted.

SQL> select \* from friend;

NAME ADDRESS MOBILENO HIGHES MARKS

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tanya ballabgarh 9811733465 msc 90

ritika bdarpur 9834567239 mca 95

sreyasi noida 9834345678 mba 96

shikha kirtingar 9834348637 mba 93

mariam laxmingar 9834348578 msc 92

sumit kirtingar 9834348556 mca 98

ifra delhi 9834348567 mca 93

7 rows selected.

**SQL> select name from friend order by marks;**

NAME

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tanya

mariam

shikha

ifra

ritika

sreyasi

sumit

7 rows selected.

**Question 3**

**SQL> create table classmates (rollno number(2),name varchar2(30),address varchar**

**2(6),mobileno number(10),marks number(3));**

**Table created.**

SQL> insert into classmates values('1','vaishali','blb','9811733456','98');

1 row created.

SQL> insert into classmates values('2','ifra','delhi','9811733789','97');

1 row created.

SQL> insert into classmates values('3','mariam','sdelhi','9811733796','98');

1 row created.

SQL> insert into classmates values('4','sumit','edelhi','8911733796','95');

1 row created.

SQL> delete from classmates where rollno=4;

1 row deleted.

SQL> delete from classmates where rollno=3;

2 rows deleted.

SQL> insert into classmates values('4','sumit','edelhi','8911733796','95');

1 row created.

SQL> select \* from classmates;

ROLLNO NAME ADDRES MOBILENO MARKS

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1 vaishali blb 9811733456 98

2 ifra delhi 9811733789 97

4 sumit edelhi 8911733796 95

SQL> insert into classmates values('3','mariam','sdelhi','9811733796','98');

1 row created.

SQL> select \* from classmates;

ROLLNO NAME ADDRES MOBILENO MARKS

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1 vaishali blb 9811733456 98

2 ifra delhi 9811733789 97

4 sumit edelhi 8911733796 95

3 mariam sdelhi 9811733796 98

SQL> insert into classmates values('5','vinay','dell','8967733796','92');

1 row created.

SQL> insert into classmates values('6','tanya','bihar','89677337567','99');

insert into classmates values('6','tanya','bihar','89677337567','99')

\*

ERROR at line 1:

ORA-01438: value larger than specified precision allowed for this column

SQL> insert into classmates values('6','tanya','bihar','8967733756','99');

1 row created.

SQL> select \* from classmates;

ROLLNO NAME ADDRES MOBILENO MARKS

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1 vaishali blb 9811733456 98

2 ifra delhi 9811733789 97

4 sumit edelhi 8911733796 95

3 mariam sdelhi 9811733796 98

5 vinay dell 8967733796 92

6 tanya bihar 8967733756 99

6 rows selected.

SQL> update classmates set rollno=26 where name=sumit;

update classmates set rollno=26 where name=sumit

\*

ERROR at line 1:

ORA-00904: "SUMIT": invalid identifier

SQL> update classmates set rollno=26 where name='sumit';

1 row updated.

SQL> update classmates set rollno=28 where name='ifra';

1 row updated.

**SQL> select \* from classmates where rollno between 20 and 30;**

ROLLNO NAME ADDRES MOBILENO MARKS

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28 ifra delhi 9811733789 97

26 sumit edelhi 8911733796 95

**SQL> select \* from classmates order by rollno;**

ROLLNO NAME ADDRES MOBILENO MARKS

---------- ------------------------------ ------ ---------- ----------

1 vaishali blb 9811733456 98

3 mariam sdelhi 9811733796 98

5 vinay dell 8967733796 92

6 tanya bihar 8967733756 99

26 sumit edelhi 8911733796 95

28 ifra delhi 9811733789 97

6 rows selected.

SQL> select \* from classmates order by rollno asc;

ROLLNO NAME ADDRES MOBILENO MARKS

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1 vaishali blb 9811733456 98

3 mariam sdelhi 9811733796 98

5 vinay dell 8967733796 92

6 tanya bihar 8967733756 99

26 sumit edelhi 8911733796 95

28 ifra delhi 9811733789 97

6 rows selected.

**SQL> select name,marks as percentage from classmates;**

NAME PERCENTAGE

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vaishali 98

ifra 97

sumit 95

mariam 98

vinay 92

tanya 99

6 rows selected.

**Question 4**

**SQL> create table record (employee\_id number(5),name varchar2(30),email varchar2**

**(25),mobileno number(10),jobid varchar2(10),salary number(8,2));**

**Table created.**

SQL> insert into record values ('1','vaishali','vaishaligupta67@gmail.com','9811

733497','j01','34567.89');

1 row created.

SQL> insert into record values ('2','tanya','tanyadua67@gmail.com','6789733497',

'j02','39567.89');

1 row created.

SQL> insert into record values ('3','ritika','ritika98@gmail.com','8789733497','

j03','45567.89');

1 row created.

SQL> insert into record values ('4','mariam','mariam97@gmail.com','9689733497','

j04','675679.89');

1 row created.

SQL> insert into record values ('5','ifra','ifra56@gmail.com','9689733497','j05'

,'895679.89');

1 row created.

SQL> insert into record values ('6','sumit','nagpal@gmail.com','7889733497','j06

','905679.89');

1 row created.

SQL> select \* from record;

EMPLOYEE\_ID NAME EMAIL MOBILENO

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JOBID SALARY

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1 vaishali vaishaligupta67@gmail.com 9811733497

j01 34567.89

2 tanya tanyadua67@gmail.com 6789733497

j02 39567.89

3 ritika ritika98@gmail.com 8789733497

j03 45567.89

EMPLOYEE\_ID NAME EMAIL MOBILENO

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JOBID SALARY

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4 mariam mariam97@gmail.com 9689733497

j04 675679.89

5 ifra ifra56@gmail.com 9689733497

j05 895679.89

6 sumit nagpal@gmail.com 7889733497

j06 905679.89

6 rows selected.

**SQL> update record set salary=95678.67 where name='vaishali';**

**1 row updated.**

SQL> select \* from record;

EMPLOYEE\_ID NAME EMAIL MOBILENO

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JOBID SALARY

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1 vaishali vaishaligupta67@gmail.com 9811733497

j01 95678.67

2 tanya tanyadua67@gmail.com 6789733497

j02 39567.89

3 ritika ritika98@gmail.com 8789733497

j03 45567.89

EMPLOYEE\_ID NAME EMAIL MOBILENO

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JOBID SALARY

---------- ----------

4 mariam mariam97@gmail.com 9689733497

j04 675679.89

5 ifra ifra56@gmail.com 9689733497

j05 895679.89

6 sumit nagpal@gmail.com 7889733497

j06 905679.89

6 rows selected.

**Question 5-**

**SQL> create table emp2(empno number(2) PRIMARY KEY NOT NULL,ename1 varchar2(20)**

**NOT NULL,dept\_no number(2),job varchar2(20),hiredate DATE DEFAULT '19-jul-24');**

**Table created.**

**SQL> create table dept1(deptno number(2) PRIMARY KEY,dname varchar2(20) NOT NULL**

**,loc varchar2(20) NOT NULL);**

**Table created.**

**SQL> alter table emp2 modify foreign key(dept\_no) references dept1(deptno);**

**Table altered.**

SQL> insert into dept1 values('20','research','faridabad');

1 row created.

SQL> insert into dept1 values('22','IT','delhi');

1 row created.

SQL> insert into dept1 values('24','HR','noida');

1 row created.

SQL> insert into dept1 values('26','management','gurgaon');

1 row created.

SQL> select \* from dept1;

DEPTNO DNAME LOC

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20 research faridabad

22 IT delhi

24 HR noida

26 management gurgaon

SQL> desc emp2;

Name Null? Type

----------------------------------------- -------- ----------------------------

EMPNO NOT NULL NUMBER(2)

ENAME1 NOT NULL VARCHAR2(20)

DEPT\_NO NUMBER(2)

JOB VARCHAR2(20)

HIREDATE DATE

SQL> insert into emp2 values ('1','vaishali','20','j01','25-jul-2019');

1 row created.

SQL> insert into emp2 values ('1','tanya','21','j02','28-jul-2019');

insert into emp2 values ('1','tanya','21','j02','28-jul-2019')

\*

ERROR at line 1:

ORA-00001: unique constraint (SYSTEM.SYS\_C005451) violated00

SQL> insert into emp2 values ('2','tanya','21','j02','28-jul-2019');

insert into emp2 values ('2','tanya','21','j02','28-jul-2019')

\*

ERROR at line 1:

ORA-02291: integrity constraint (SYSTEM.SYS\_C005455) violated - parent key not

found

SQL> insert into emp2 values ('2','tanya','22','j02','28-jul-2019');

1 row created.

SQL> insert into emp2 values ('3','ritika','24','j03','30-aug-2019');

1 row created.

SQL> insert into emp2 values ('4','sumit','26','j04','31-aug-2019');

1 row created.

SQL> select \* from emp2;

EMPNO ENAME1 DEPT\_NO JOB HIREDATE

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1 vaishali 20 j01 25-JUL-19

2 tanya 22 j02 28-JUL-19

3 ritika 24 j03 30-AUG-19

4 sumit 26 j04 31-AUG-19