Lab Assignment-4



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Q1) Check the structure of tables.

desc dept ;
desc emp;
desc S;
desc P;
desc J;
desc SPJ;

TABLE DEPT

Column	Null?	Туре
DEPTN0	NOT NULL	NUMBER
DNAME	_	CHAR(20)

Download CSV

2 rows selected.

TABLE EMP

Column	Null?	Туре
EMPN0	NOT NULL	NUMBER
ENAME	_	VARCHAR2(20)
JOB	_	CHAR(20)
SAL	NOT NULL	NUMBER
DEPTN0	_	NUMBER

Download CSV

5 rows selected.

TABLE S

Column	Null?	Туре
SN0	NOT NULL	NUMBER
SNAME	-	VARCHAR2(20)
SCITY	_	VARCHAR2(20)

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TABLE P

Column	Null? Type	
PN0	NOT NULL	NUMBER
PNAME	-	VARCHAR2(20)
COLOR	_	VARCHAR2(20)

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3 rows selected.

TABLE J

Column	Null?	Туре
JN0	NOT NULL	NUMBER
JNAME	_	VARCHAR2(20)
JCITY	_	VARCHAR2(20)

Download CSV

3 rows selected.

TABLE SPJ

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Column	Null?	Туре
SN0	NOT NULL	NUMBER
PN0	NOT NULL	NUMBER
JN0	NOT NULL	NUMBER
QTY	_	NUMBER

Q2) Check the constraint name for applied constraints?

*select CONSTRAINT_NAME from USER_CONSTRAINTS where table name='emp';

Q3) Drop the unique constraint on ENAME

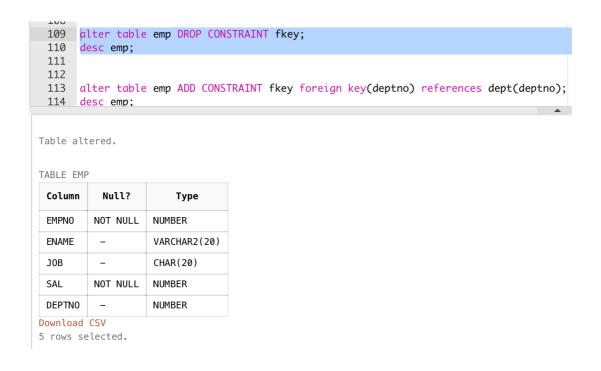
alter table emp DROP CONSTRAINT name_emp;

desc emp;

```
105
 106
      alter table emp DROP CONSTRAINT name_emp;
 107
      desc emp;
 108
 109
      alter table emp DROP CONSTRAINT fkey;
 110
      desc emp;
 111
 112
      alter table emp ADD CONSTRAINT fkey foreign key(deptno) references dept(deptno);
 113
 114
     desc emp;
Table altered.
TABLE EMP
 Column
          Null?
                       Type
 EMPN0
         NOT NULL
                   NUMBER
 ENAME
                   VARCHAR2(20)
                   CHAR(20)
 J0B
 SAL
         NOT NULL
                   NUMBER
 DEPTN0
                   NUMBER
Download CSV
5 rows selected.
```

Q4) Drop the Foreign Key constraint on DEPTNO

alter table emp DROP CONSTRAINT fkey; desc emp;



Q5) Add Foreign Key constraint on DEPTNO

alter table emp ADD CONSTRAINT fkey foreign key(deptno) references dept(deptno); desc emp;



Q6) Change Data type of ENAME

alter table emp MODIFY(ename char(20)); desc emp;

```
alter table emp MODIFY(ename char(20));
 116
 117
       desc emp;
 118
      alter table dept MODIFY(dname char(30));
 119
 120 desc dept;
Table altered.
TABLE EMP
           Null?
 Column
                     Type
 EMPNO
         NOT NULL
                  NUMBER
 ENAME
                    CHAR(20)
 J0B
                    CHAR(20)
 SAL
         NOT NULL
                   NUMBER
 DEPTN0
                   NUMBER
Download CSV
5 rows selected.
```

Q7) Change width of DNAME

alter table dept MODIFY(dname char(30)); desc dept;

```
alter table dept MODIFY(dname char(30));
desc dept;

alter table emp ADD(COMM varchar(25));
desc emp;

alter table J DROP(jcity);
desc J;

CREATE TABLE new_emp AS select * from emp
desc new_emp;
```

Table altered.

TABLE DEPT

Column	Null?	Туре
DEPTN0	NOT NULL	NUMBER
DNAME	-	CHAR(30)

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Q8) Add COMM column in EMP table

alter table emp ADD(COMM varchar(25)); desc emp;

```
122  alter table emp ADD(COMM varchar(25));
123  desc emp;
124
125  alter table J DROP(jcity);
126  desc J;
127
128  CREATE TABLE new_emp AS select * from emp;
129  desc new_emp;
```

Table altered.

TABLE EMP

Column	Null?	Туре
EMPN0	NOT NULL	NUMBER
ENAME	_	CHAR(20)
Ј0В	_	CHAR(20)
SAL	NOT NULL	NUMBER
DEPTN0	_	NUMBER
COMM	_	VARCHAR2(25)

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Q9) Drop CITY column from J table

```
alter table J DROP(jcity); desc J;
```

```
125 alter table J DROP(jcity);
126 desc J;
127
128 CREATE TABLE new_emp AS select * from emp;
129 desc new_emp;
```

Table altered.

TABLE J

Column	Null?	Туре	
JN0	NOT NULL	NUMBER	
JNAME	_	VARCHAR2(20)	

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Q10) Create duplicate copy of EMP table

CREATE TABLE new_emp AS select * from emp; desc new_emp;

```
127
128 CREATE TABLE new_emp AS select * from emp;
129 desc new_emp;
130
131
132 CREATE TABLE new_dept(d,name) AS select * from decomposition desc new_dept;
134
135
```

Table created.

TABLE NEW_EMP

Column	Null?	Туре
EMPN0	_	NUMBER
ENAME	-	CHAR(20)
ЈОВ	-	CHAR(20)
SAL	NOT NULL	NUMBER
DEPTNO	-	NUMBER
COMM	_	VARCHAR2(25)

Download CSV

6 rows selected.

Q11) Copy structure of DEPT table in another table with different column names

CREATE TABLE new_dept(d,name) AS select * from dept; desc new_dept;



Table created.

TABLE NEW DEPT

Column	Null?	Туре
D	_	NUMBER
NAME	-	CHAR(30)

Download CSV

2 rows selected.

Q12) Change the name and job of the employee whose EMPNO=100

UPDATE emp set ename = 'PREM', job = 'Lect' where empno = 100; select * from emp order by empno asc;

```
136   UPDATE emp set ename = 'PREM', job = 'Lect' where empno = 100;
137   select * from emp order by empno asc;
138
139   delete from emp where deptno = 20;
140   select * from emp order by empno asc;
141
```

1 row(s) updated.

EMPN0	ENAME	JOB	SAL	DEPTN0	СОММ
100	PREM	Lect	20000	10	-
101	ROHAN	AP	43000	20	_
102	RAJESH	Prof	15000	30	_
103	PREET	Lect	55000	10	_
104	TEJAS	Lect	36000	30	-

Q13) Delete the record of employee who belong to computer department

delete from emp where deptno = 20; select * from emp order by empno asc;

```
delete from emp where deptno = 20;
select * from emp order by empno asc;

drop table dept;
drop table new_emp;

drop table new_emp;
```

1 row(s) deleted.

EMPNO	ENAME	J0B	SAL	DEPTN0	СОММ
100	PREM	Lect	20000	10	-
102	RAJESH	Prof	15000	30	_
103	PREET	Lect	55000	10	-
104	TEJAS	Lect	36000	30	-

Download CSV

4 rows selected.

Q14) Drop DEPT Table

drop table dept;

(directly can't be removed as emp table contains foreign key referenced from dept table)

```
143
drop table dept;
144
145
drop table new_emp;
146
147
```

ORA-02449: unique/primary keys in table referenced by foreign keys

So firstly we need to drop emp table in order to drop dept table.

```
147 drop table emp;
148 drop table dept;
149

Table dropped.
```

Q15) Drop duplicate table of EMP table

drop table new_emp;

```
145
146
147

Table dropped.
```

```
desc dept ;
desc emp;
desc S;
desc P;
desc J;
desc SPJ;

*select CONSTRAINT_NAME from USER_CONSTRAINTS where
table_name='emp';
alter table emp DROP CONSTRAINT name_emp;
desc emp;
alter table emp DROP CONSTRAINT fkey;
```

```
desc emp;
alter table emp ADD CONSTRAINT fkey foreign key(deptno) references
dept(deptno);
desc emp;
alter table emp MODIFY(ename char(20));
desc emp;
alter table dept MODIFY(dname char(30));
desc dept;
alter table emp ADD(COMM varchar(25));
desc emp;
alter table J DROP(jcity);
desc J;
CREATE TABLE new_emp AS select * from emp;
desc new_emp;
CREATE TABLE new_dept(d,name) AS select * from dept;
desc new_dept;
UPDATE emp set ename = 'PREM', job = 'Lect' where empno = 101;
select * from emp order by empno asc;
delete from emp where deptno = 20;
select * from emp order by empno asc;
drop table dept;
drop table new_emp;
```