

## Lab Assignment 7

(Continued from Lab Assignment-4)

Q1) Check the structure of tables.

TABLE EMP

| Column | Null?    | Type         |
|--------|----------|--------------|
| EMPNO  | NOT NULL | NUMBER(10,0) |
| ENAME  | -        | VARCHAR2(20) |
| JOB    | -        | VARCHAR2(20) |
| SAL    | NOT NULL | NUMBER(10,0) |
| DEPTNO | -        | NUMBER(10,0) |

```
desc book
```

TABLE BOOK

| Column | Null?    | Type         |
|--------|----------|--------------|
| RNO    | NOT NULL | NUMBER(10,0) |
| DOI    | -        | DATE         |
| DOR    | -        | DATE         |

```
desc st
```

TABLE ST

| Column | Null?    | Type         |
|--------|----------|--------------|
| RNO    | NOT NULL | NUMBER(10,0) |
| CLASS  | NOT NULL | CHAR(20)     |
| MARKS  | -        | NUMBER(10,0) |

```
desc S
```

TABLE S

| Column | Null?    | Type         |
|--------|----------|--------------|
| SNO    | NOT NULL | NUMBER(10,0) |
| SNAME  | -        | CHAR(20)     |
| CITY   | -        | CHAR(20)     |

desc P

TABLE P

| Column | Null?    | Type         |
|--------|----------|--------------|
| PNO    | NOT NULL | NUMBER(10,0) |
| PNAME  | -        | CHAR(20)     |
| COLOR  | -        | CHAR(20)     |

desc SP

TABLE SP

| Column | Null?    | Type         |
|--------|----------|--------------|
| SNO    | NOT NULL | NUMBER(10,0) |
| PNO    | NOT NULL | NUMBER(10,0) |
| QTY    | -        | NUMBER(10,0) |

.

desc dept

TABLE DEPT

| Column | Null?    | Type         |
|--------|----------|--------------|
| DEPTNO | NOT NULL | NUMBER(10,0) |
| DNAME  | -        | VARCHAR2(20) |

TABLE EMP1

| Column | Null?    | Type         |
|--------|----------|--------------|
| ENO    | NOT NULL | NUMBER(10,0) |
| ENAME  | -        | VARCHAR2(20) |
| JOB    | -        | VARCHAR2(10) |
| SAL    | NOT NULL | NUMBER(10,0) |
| DEPTNO | -        | NUMBER(10,0) |

## Q2) Check the constraint name for applied constraints?

```
select constraint_name from user_constraints where lower(table_name)='emp'
```

| CONSTRAINT_NAME  |
|------------------|
| SYS_C00114904872 |
| SYS_C00114904873 |
| SYS_C00114904874 |
| SYS_C00114904875 |

```
select constraint_name from user_constraints where lower(table_name)='book'
```

| CONSTRAINT_NAME  |
|------------------|
| SYS_C00114904939 |
| SYS_C00114904940 |

```
select constraint_name from user_constraints where lower(table_name)='st'
```

| CONSTRAINT_NAME |
|-----------------|
| C2              |
| C1              |

```
select constraint_name from user_constraints where table_name='S'
```

| CONSTRAINT_NAME |
|-----------------|
| S1              |

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```
select constraint_name from user_constraints where table_name='P'
```

| CONSTRAINT_NAME  |
|------------------|
| SYS_C00114904975 |

```
select constraint_name from user_constraints where table_name='SP'
```

| CONSTRAINT_NAME  |
|------------------|
| SYS_C00114904985 |
| SYS_C00114904986 |
| SYS_C00114904987 |

```
select constraint_name from user_constraints where lower(table_name)='dept'
```

| CONSTRAINT_NAME  |
|------------------|
| SYS_C00114905000 |
| SYS_C00114905001 |

```
select constraint_name from user_constraints where lower(table_name)='emp1'
```

| CONSTRAINT_NAME  |
|------------------|
| SYS_C00114905002 |
| SYS_C00114905003 |
| SYS_C00114905004 |
| SYS_C00114905005 |
| SYS_C00114905006 |

### Q3) Drop the unique constraint on ENAME

```
alter table emp drop unique(ename)
```

Table altered.

```
desc emp
```

TABLE EMP

| Column | Null?    | Type         |
|--------|----------|--------------|
| EMPNO  | NOT NULL | NUMBER(10,0) |
| ENAME  | -        | VARCHAR2(20) |
| JOB    | -        | VARCHAR2(20) |
| SAL    | NOT NULL | NUMBER(10,0) |
| DEPTNO | -        | NUMBER(10,0) |

#### Q4) Drop the Foreign Key constraint on DEPTNO

```
alter table emp1 drop constraint SYS_C00114905006
```

Table altered.

```
desc emp1
```

TABLE EMP1

| Column | Null?    | Type         |
|--------|----------|--------------|
| ENO    | NOT NULL | NUMBER(10,0) |
| ENAME  | -        | VARCHAR2(20) |
| JOB    | -        | VARCHAR2(10) |
| SAL    | NOT NULL | NUMBER(10,0) |
| DEPTNO | -        | NUMBER(10,0) |

#### Q5) Add Foreign Key constraint on DEPTNO

```
alter table emp1 add constraint f1 foreign key(deptno) references dept
```

Table altered.

## Q6) Change Data type of ENAME

```
alter table emp modify ename char(100) unique
```

Table altered.

```
desc emp
```

TABLE EMP

| Column | Null?    | Type         |
|--------|----------|--------------|
| EMPNO  | NOT NULL | NUMBER(10,0) |
| ENAME  | -        | CHAR(100)    |
| JOB    | -        | VARCHAR2(20) |
| SAL    | NOT NULL | NUMBER(10,0) |
| DEPTNO | -        | NUMBER(10,0) |

## Q7) Change width of DNAME

```
alter table dept modify dname varchar(10) check(dname in('Acc','Comp','Elect'))
```

Table altered.

```
desc dept
```

TABLE DEPT

| Column | Null?    | Type         |
|--------|----------|--------------|
| DEPTNO | NOT NULL | NUMBER(10,0) |
| DNAME  | -        | VARCHAR2(10) |

### Q8) Add COMM column in EMP table

```
alter table emp add comm number(10)
```

Table altered.

```
desc emp
```

TABLE EMP

| Column | Null?    | Type         |
|--------|----------|--------------|
| EMPNO  | NOT NULL | NUMBER(10,0) |
| ENAME  | -        | CHAR(100)    |
| JOB    | -        | VARCHAR2(20) |
| SAL    | NOT NULL | NUMBER(10,0) |
| DEPTNO | -        | NUMBER(10,0) |
| COMM   | -        | NUMBER(10,0) |

### Q9) Drop CITY column from S table

```
alter table S drop column CITY
```

Table altered.

```
desc S
```

TABLE S

| Column | Null?    | Type         |
|--------|----------|--------------|
| SNO    | NOT NULL | NUMBER(10,0) |
| SNAME  | -        | CHAR(20)     |



### Q10) Create duplicate copy of EMP table

```
create table emp_copy as select * from emp
```

Table created.

```
select * from emp_copy
```

| EMPNO | ENAME   | JOB  | SAL   | DEPTNO | COMM |
|-------|---------|------|-------|--------|------|
| 101   | Aryan   | Lect | 10000 | 10     | -    |
| 104   | Cynthia | AP   | 5000  | 20     | -    |
| 102   | Abram   | Lect | 10000 | 10     | -    |
| 103   | Daniel  | Prof | 1000  | 30     | -    |

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

```
create table dup_dept(dept_no, dept_name) as (select * from dept)
```

Table created.

```
select * from dup_dept
```

| DEPT_NO | DEPT_NAME |
|---------|-----------|
| 10      | Comp      |
| 20      | Elect     |

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

```
update emp1 set ename = 'Cardan', job = 'Prof' where eno = 100
```

1 row(s) updated.

```
select * from emp1
```

| ENO | ENAME  | JOB  | SAL  | DEPTNO |
|-----|--------|------|------|--------|
| 100 | Cardan | Prof | 1000 | 10     |

### Q13) Delete the record of employee who belongs to computer department

```
delete from emp1 where deptno = 10
```

1 row(s) deleted.

### Q14) Drop DEPT Table

```
alter table emp1 drop constraint f1
```

Table altered.

```
drop table dept
```

Table dropped.

### Q15) Drop duplicate table of EMP table

```
drop table dup_dept
```

Table dropped.