

SQL> desc employee

Name	Null?	Type
EMPNO		NUMBER(3)
ENAME	NOT NULL	VARCHAR2(20)
JOB	NOT NULL	VARCHAR2(20)
DEPTNO		NUMBER(3)
SALARY		NUMBER(8,2)

SQL> alter table employee add constraint cons_name_uni unique(ename);

Table altered.

SQL> select * from employee;

EMPNO	ENAME	JOB	DEPTNO	SALARY
1	Mathi	AP	1	10000
2	Arjun	ASP	2	15000
3	Gugan	ASP	1	15000
4	Karthik	Prof	2	30000
5	Akalya	AP	1	10000

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');

Enter value for empno: 6

Enter value for ename: Mathi

Enter value for job: ASP

Enter value for deptno: 1

Enter value for salary: 10000

old 1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')

new 1: insert into employee values ('6', 'Mathi', 'ASP', '1', '10000')

insert into employee values ('6', 'Mathi', 'ASP', '1', '10000')

*

ERROR at line 1:

ORA-00001: unique constraint (RA1911030010058.CONSTRAINT_NAME_UNI) violated

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');

Enter value for empno: 7

Enter value for ename:

Enter value for job:

Enter value for deptno: 1

Enter value for salary: 10000

old 1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')

new 1: insert into employee values ('7', '', '', '1', '10000')

insert into employee values ('7', '', '', '1', '10000')

*

ERROR at line 1:

ORA-01400: cannot insert NULL into ("RA1911030010058"."EMPLOYEE"."ENAME")

SQL> create table dept(dno number(2) primary key, dname varchar2(20));

Table created.

SQL> insert into dept values(1, 'NWC');

1 row created.

SQL> insert into dept values(2, 'CINTEL');

1 row created.

SQL> insert into dept values(3, 'CSE');

1 row created.

SQL> insert into dept values(4, 'IT');

1 row created.

SQL> insert into dept values(4, 'CTECH');

insert into dept values(4, 'CTECH')

*

ERROR at line 1:

ORA-00001: unique constraint (RA1911030010058.SYS_C006204) violated

Q7)

SQL> create table stu (sid number(2), name varchar2(20), dno number(2) references dept(dno));

Table created.

SQL> insert into stu values(10, 'Nikhil', 1);

1 row created.

```
SQL> insert into stu values(12, 'Ritesh', 4);
```

```
1 row created.
```

```
SQL> insert into stu values(11, 'Nitish', 5);
insert into stu values(11, 'Nitish', 5)
*
```

```
ERROR at line 1:
```

```
ORA-02291: integrity constraint (RA1911030010058.SYS_C006211) violated - parent
key not found
```

```
SQL> select * from stu;
```

SID NAME	DNO
10 Nikhill	1
12 Ritesh	4

```
SQL> select * from dept;
```

DNO DNAME
1 NWC
2 CINTEL
3 CSE
4 IT

```
SQL> delete from dept where dno=4;
delete from dept where dno=4
*
```

```
ERROR at line 1:
```

```
ORA-02292: integrity constraint (RA1911030010058.SYS_C006211) violated - child
record found
```

```
SQL> alter table dept add constraint dname_ck check(dname in ('NWC', 'CS', 'CSE', 'CINTEL', 'IT'));
```

```
Table altered.
```

```
SQL> insert into dept values(5, 'VAPT');
insert into dept values(5, 'VAPT')
*
```

```
ERROR at line 1:
```

```
ORA-02290: check constraint (RA1911030010058.DNAME_CK) violated
```

```
SQL> insert into dept values(5, 'CS');
```

```
1 row created.
```

```
SQL> insert into dept values(6, 'OS');
insert into dept values(6, 'OS')
*
```

```
ERROR at line 1:
```

```
ORA-02290: check constraint (RA1911030010058.DNAME_CK) violated
```

```
SQL> alter table dept disable constraint dname_ck;
```

```
Table altered.
```

```
SQL> insert into dept values(6, 'OS');
```

```
1 row created.
```

```
SQL> alter table dept enable constraint dname_ck;
alter table dept enable constraint dname_ck
*
```

```
ERROR at line 1:
```

```
ORA-02293: cannot validate (RA1911030010058.DNAME_CK) - check constraint
violated
```

```
SQL> select * from dept
```

```
2 ;
```

DNO DNAME
1 NWC
2 CINTEL
3 CSE
4 IT
5 CS

6 rows selected.

```
SQL> alter table dept add constraint dname_ck1 check(dname in ('NWC', 'CS', 'CSE', 'CINTEL', 'IT', 'OS'));
```

Table altered.

```
SQL> insert into dept values(7, 'VAPT');
```

```
insert into dept values(7, 'VAPT')
```

*

ERROR at line 1:

ORA-02290: check constraint (RA1911030010058.DNAME_CK1) violated

Q1,2)

```
SQL> CREATE TABLE emp1( empno number(4),
  2  ename varchar2(10), job char(20), mgr number(10),
  3  hiredate date, sal number(5), comm number(5),
  4  deptno number(7,2) NOT NULL,
  5  CONSTRAINT emp1_pk PRIMARY KEY (empno));
```

Table created.

```
SQL> drop table emp1;
```

Table dropped.

```
SQL> select * from employee;
```

EMPNO	ENAME	JOB	DEPTNO	SALARY
1	Mathi	AP	1	10000
2	Arjun	ASP	2	15000
3	Gugan	ASP	1	15000
4	Karthik	Prof	2	30000
5	Akalya	AP	1	10000

```
SQL> desc employee
```

Name	Null?	Type
EMPNO		NUMBER(3)
ENAME	NOT NULL	VARCHAR2(20)
JOB	NOT NULL	VARCHAR2(20)
DEPTNO		NUMBER(3)
SALARY		NUMBER(8,2)

Q3,4)

```
SQL> alter table employee add constraint emp_pk primary key(empno);
```

Table altered.

```
SQL> select * from employee;
```

EMPNO	ENAME	JOB	DEPTNO	SALARY
1	Mathi	AP	1	10000
2	Arjun	ASP	2	15000
3	Gugan	ASP	1	15000
4	Karthik	Prof	2	30000
5	Akalya	AP	1	10000

```
SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
```

Enter value for empno: 1

Enter value for ename: Karan

Enter value for job: AP

Enter value for deptno: 2

Enter value for salary: 10000

```
old 1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
```

```
new 1: insert into employee values ('1', 'Karan', 'AP', '2', '10000')
```

```
insert into employee values ('1', 'Karan', 'AP', '2', '10000')
```

*

ERROR at line 1:

ORA-00001: unique constraint (RA1911030010058.EMP_PK) violated

```
SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
```

Enter value for empno: 6

Enter value for ename: Karan

Enter value for job: AP

Enter value for deptno: 2

Enter value for salary: 10000

```
old 1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
```

```
new 1: insert into employee values ('6', 'Karan', 'AP', '2', '10000')
```

1 row created.

SQL> desc dept

Name	Null?	Type
DNO	NOT NULL	NUMBER(2)
DNAME		VARCHAR2(20)

Q5)

SQL> alter table dept add constraint name_uni unique(dname);

Table altered.

SQL> insert into dept values(7, 'CSE');
insert into dept values(7, 'CSE')

*

ERROR at line 1:

ORA-00001: unique constraint (RA1911030010058.NAME_UNI) violated

SQL> select * from dept;

DNO	DNAME
1	NWC
2	CINTEL
3	CSE
4	IT
5	CS
6	OS

6 rows selected.

SQL> insert into dept values(7, 'VAPT');
insert into dept values(7, 'VAPT')

*

ERROR at line 1:

ORA-02290: check constraint (RA1911030010058.DNAME_CK1) violated

Q6)

SQL> alter table employee add constraint emp_ck check(empno between 1 and 10);

Table altered.

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
Enter value for empno: 7
Enter value for ename: Annanya
Enter value for job: AP
Enter value for deptno: 3
Enter value for salary: 10000
old 1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
new 1: insert into employee values ('7', 'Annanya', 'AP', '3', '10000')

1 row created.

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
Enter value for empno: 11
Enter value for ename: Pannanya
Enter value for job: ASP
Enter value for deptno: 4
Enter value for salary: 10000
old 1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
new 1: insert into employee values ('11', 'Pannanya', 'ASP', '4', '10000')
insert into employee values ('11', 'Pannanya', 'ASP', '4', '10000')

*

ERROR at line 1:

ORA-02290: check constraint (RA1911030010058.EMP_CK) violated

DROPPING CONSTRAINTS:

SQL> alter table employee drop constraint emp_ck;

Table altered.

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
Enter value for empno: 11
Enter value for ename: Annanda
Enter value for job: AP
Enter value for deptno: 1
Enter value for salary: 10500
old 1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
new 1: insert into employee values ('11', 'Annanda', 'AP', '1', '10500')

1 row created.

Q10)

SQL> ALTER TABLE dept DROP PRIMARY KEY CASCADE;

Table altered.

SQL> desc dept

Name	Null?	Type
DNO		NUMBER(2)
DNAME		VARCHAR2(20)

SQL> select * from dept;

DNO	DNAME
1	NWC
2	CINTEL
3	CSE
4	IT
5	CS
6	OS

6 rows selected.

Q10)

SQL> alter table dept disable constraint dname_ck cascade;

Table altered.

SQL> alter table dept disable constraint dname_ck1 cascade;

Table altered.

SQL> select * from dept;

DNO	DNAME
1	NWC
2	CINTEL
3	CSE
4	IT
5	CS
6	OS

6 rows selected.

SQL> insert into dept values (1, 'VAPT');

1 row created.

SQL> insert into dept values (7, 'VAPT');

insert into dept values (7, 'VAPT')

*

ERROR at line 1:

ORA-00001: unique constraint (RA1911030010058.NAME_UNI) violated

Q11)

SQL> ALTER TABLE employee DISABLE CONSTRAINT emp_pk CASCADE;

Table altered.

SQL> select * from employee;

EMPNO	ENAME	JOB	DEPTNO	SALARY
7	Annanya	AP	3	10000
11	Annanda	AP	1	10500
1	Mathi	AP	1	10000
2	Arjun	ASP	2	15000
3	Gugan	ASP	1	15000
4	Karthik	Prof	2	30000
5	Akalya	AP	1	10000
6	Karan	AP	2	10000

8 rows selected.

SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');

Enter value for empno: 2

Enter value for ename: Kanye

```
Enter value for job: Rap
Enter value for deptno: 2
Enter value for salary: 10202
old 1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
new 1: insert into employee values ('2', 'Kanye', 'Rap', '2', '10202')
```

1 row created.

```
SQL> ALTER TABLE employee ENABLE CONSTRAINT emp_pk;
ALTER TABLE employee ENABLE CONSTRAINT emp_pk
*
ERROR at line 1:
ORA-02437: cannot validate (RA1911030010058.EMP_PK) - primary key violated
```

```
SQL> delete from employee where ename='Kanye';
```

1 row deleted.

Q12)

```
SQL> ALTER TABLE employee ENABLE CONSTRAINT emp_pk;
```

Table altered.

```
SQL> insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY');
Enter value for empno: 2
Enter value for ename: Kanye
Enter value for job: Rap
Enter value for deptno: 1
Enter value for salary: 10202
old 1: insert into employee values ('&EMPNO', '&ENAME', '&JOB', '&DEPTNO', '&SALARY')
new 1: insert into employee values ('2', 'Kanye', 'Rap', '1', '10202')
insert into employee values ('2', 'Kanye', 'Rap', '1', '10202')
*
ERROR at line 1:
ORA-00001: unique constraint (RA1911030010058.EMP_PK) violated
```