

Experiment No 3
Implementation of Constraints

Primary Key

Creation of table by adding constraint to one column

```
SQL> create table students (s_id number(10) primary key,s_name varchar(20));
Table created.
SQL> desc students;
Name Null? Type
-----
S_ID NOT NULL NUMBER(10)
S_NAME VARCHAR2(20)
SQL>
```

Creation of table by adding constraint to multiple column

```
SQL> create table students(
2  fname varchar(20),
3  lname varchar(20),
4  s_add varchar(20),
5  constraint name primary key(fname,lname));
Table created.
SQL> desc students;
Name Null? Type
-----
FNAME NOT NULL VARCHAR2(20)
LNAME NOT NULL VARCHAR2(20)
S_ADD VARCHAR2(20)
SQL>
```

Add constraints to multiple column

```
SQL> alter table students
2  add constraint name primary key (fname,lname);
Table altered.
SQL> desc students;
Name Null? Type
-----
FNAME NOT NULL VARCHAR2(20)
LNAME NOT NULL VARCHAR2(20)
S_ADD VARCHAR2(20)
SQL>
```

Experiment No 3
Implementation of Constraints

Delete the whole constraint

```
SQL> desc
Usage: DESCRIBE [schema.]object[@db_link]
SQL> desc students;
Name                               Null?    Type
-----
FNAME                             NOT NULL VARCHAR2(20)
LNAME                             NOT NULL VARCHAR2(20)
S_ADD                             VARCHAR2(20)

SQL> alter table students drop constraint name;

Table altered.

SQL> desc
Usage: DESCRIBE [schema.]object[@db_link]
SQL> desc students;
Name                               Null?    Type
-----
FNAME                             VARCHAR2(20)
LNAME                             VARCHAR2(20)
S_ADD                             VARCHAR2(20)
```

Check constraint

```
SQL> create table students(
2   s_id number(10),
3   s_name varchar(20),
4   s_age number(10), constraint age check (s_age>18));

Table created.

SQL> insert into students values (1,'hulk',15);
insert into students values (1,'hulk',15)
*
ERROR at line 1:
ORA-02290: check constraint (SYSTEM.AGE) violated
```

Creation of Primary & Foreign Key

```
SQL> create table person(
2   p_id number(10),
3   p_name varchar(20),
4   p_age number(10),
5   constraint name primary key (p_id));

Table created.

SQL> create table customer(
2   c_id number(10),
3   c_name varchar(20),
4   p_id number(10),
5   constraint fkname foreign key(p_id) references person(p_id));

Table created.
```