

## LAB 7

Malik Zohaib Mustafa

01-134192-030

BSCS-4B

### To implement Constraints.

(a) Primary key, (b). Foreign Key, (c). Check, (d). Unique, (e). Null,  
(f). Not null.

1. Write a query to create primary constraints with table level with naming convention.

```
SQL> /* MALIK ZOHAIB MUSTAFA */
SQL> /* 01-134192-030 */
SQL> /* BSCS-4B */
SQL> CREATE TABLE ZAIBI
  2  (
  3    STID NUMBER(10),
  4    STNAME VARCHAR(25),
  5    STADDRESS VARCHAR(25),
  6    STCITY VARCHAR(30),
  7    CONSTRAINT STID_PK PRIMARY KEY(STID)
  8  );
```

Table created.

```
SQL> DESC ZAIBI;
```

Name	Null?	Type
STID	NOT NULL	NUMBER(10)
STNAME		VARCHAR2(25)
STADDRESS		VARCHAR2(25)
STCITY		VARCHAR2(30)

2. CREATE TABLE EMPLOYEE (EMPNO NUMBER (6),  
ENAME VARCHAR2(20),  
JOB VARCHAR2(6),  
SAL NUMBER (7),  
DEPTNO NUMBER (5),  
**CONSTRAINT EMP\_EMPNO\_PK PRIMARY  
KEY(EMPNO));**  
Table level constraint with alter command (primary key):

```

SQL> /* MALIK ZOHAIB MUSTAFA */
SQL> /* 01-134192-030 */
SQL> /* BSCS-4B */
SQL>
SQL> CREATE TABLE EMPLOYEE (EMPNO NUMBER (6),
  2  ENAME VARCHAR2(20),
  3  JOB VARCHAR2(6),
  4  SAL NUMBER (7),
  5  DEPTNO NUMBER (5),
  6  CONSTRAINT EMP_EMPNO_PK PRIMARY
  7  KEY(EMPNO));

```

Table created.

```
SQL> DESC EMPLOYEE;
```

Name	Null?	Type
EMPNO	NOT NULL	NUMBER(6)
ENAME		VARCHAR2(20)
JOB		VARCHAR2(6)
SAL		NUMBER(7)
DEPTNO		NUMBER(5)

- Write a query to create primary constraints with alter command.

```

SQL>
SQL> /* MALIK ZOHAIB MUSTAFA */
SQL> /* 01-134192-030 */
SQL> /* BSCS-4B */
SQL> CREATE TABLE ZAIBI2 (
  2  EMPNO NUMBER (6),
  3  ENAME VARCHAR2(20),
  4  JOB VARCHAR2(6),
  5  SAL NUMBER (7),
  6  DEPTNO NUMBER (5)
  7  );

```

Table created.

```
SQL> ALTER TABLE ZAIBI2 MODIFY EMPNO PRIMARY KEY;
```

Table altered.

- Write a query to create foreign key constraints with column level.

```
SQL>
SQL>      /* MALIK ZOHAIB MUSTAFA */
SQL>      /* 01-134192-030 */
SQL>      /* BSCS-4B */
SQL>      CREATE TABLE ZAIBI2 (
2      EMPNO NUMBER (6),
3      ENAME VARCHAR2(20),
4      JOB VARCHAR2(6),
5      SAL NUMBER (7),
6      DEPTNO NUMBER (5)
7      );
```

Table created.

```
SQL> ALTER TABLE ZAIBI2 MODIFY EMPNO PRIMARY KEY;
```

Table altered.

```
SQL> ALTER TABLE ZAIBI2 MODIFY FOREIGN KEY(DEPTNO) REFERENCES ZAIBI(STID);
```

Table altered.