

SQL Assignment 2

Q 1: Create a table name IES College with the name IES College.

```
CREATE TABLE IES_STUDENTS (  
STUDENT_ID INT PRIMARY KEY,  
STUDENT_NAME VARCHAR2 (15),  
BRANCH VARCHAR (10));
```

```
SQL> CREATE TABLE IES_STUDENTS (  
2  STUDENT_ID INT PRIMARY KEY,  
3  STUDENT_NAME VARCHAR2(15),  
4  BRANCH VARCHAR(10));
```

Table created.

```
SQL> desc IES_STUDENTS
```

Name	Null?	Type
STUDENT_ID	NOT NULL	NUMBER(38)
STUDENT_NAME		VARCHAR2(15)
BRANCH		VARCHAR2(10)

Q 2: Add one column name with student address.

```
ALTER TABLE IES_STUDENTS  
ADD ADDRESS VARCHAR (50);
```

```
SQL> ALTER TABLE IES_STUDENTS  
2 ADD ADDRESS VARCHAR(50);
```

Table altered.

```
SQL> desc IES_STUDENTS
```

Name	Null?	Type
STUDENT_ID	NOT NULL	NUMBER(38)
STUDENT_NAME		VARCHAR2(15)
BRANCH		VARCHAR2(10)
ADDRESS		VARCHAR2(50)

Q 3: Rename the column name student name to s_name.

```
ALTER TABLE IES_STUDENTS
```

```
RENAME COLUMN STUDENT_NAME TO S_NAME;
```

```
SQL> ALTER TABLE IES_STUDENTS  
2 RENAME COLUMN STUDENT_NAME TO S_NAME;
```

Table altered.

```
SQL> desc IES_STUDENTS
```

Name	Null?	Type
STUDENT_ID	NOT NULL	NUMBER(38)
S_NAME		VARCHAR2(15)
BRANCH		VARCHAR2(10)
ADDRESS		VARCHAR2(50)

Q 4: Change the range of student name varchar2 (15) to varchar2 (30).

```
ALTER TABLE IES_STUDENTS
```

```
MODIFY S_NAME VARCHAR2 (30);
```

```
SQL> ALTER TABLE IES_STUDENTS
2 MODIFY S_NAME VARCHAR2(30);
```

Table altered.

```
SQL> desc IES_STUDENTS
```

Name	Null?	Type
STUDENT_ID	NOT NULL	NUMBER(38)
S_NAME		VARCHAR2(30)
BRANCH		VARCHAR2(10)
ADDRESS		VARCHAR2(50)

Q 5: Add the constrain Primary Key.

```
ALTER TABLE IES_STUDENTS
```

```
ADD CONSTRAINT CON1 PRIMARY KEY(STUDENT_ID);
```

```
SQL> desc IES_STUDENTS
```

Name	Null?	Type
STUDENT_ID	NOT NULL	NUMBER(38)
S_NAME		VARCHAR2(30)
BRANCH		VARCHAR2(10)
ADDRESS		VARCHAR2(50)

Q 6: Rename the table name IES_STUDENTS student to IES_COLLEGE.

```
ALTER TABLE IES_STUDENTS
```

```
RENAME TO IES_COLLEGE;
```

```
SQL> ALTER TABLE IES_STUDENTS
2 RENAME TO IES_COLLEGE;
```

Table altered.

```
SQL> DESC IES_COLLEGE;
```

Name	Null?	Type
STUDENT_ID	NOT NULL	NUMBER(38)
S_NAME		VARCHAR2(30)
BRANCH		VARCHAR2(10)
ADDRESS		VARCHAR2(50)

Q 7: Insert two record:-

- a. Insert all records simultaneously.
- b. Only 3 column.
- c. User defined data.

7 (a)

```
INSERT INTO IES_COLLEGE  
VALUES (1,'KAJAL KUMARI','CSE','JHARKHAND');
```

```
SQL> INSERT INTO IES_COLLEGE  
2 VALUES(1,'KAJAL KUMARI','CSE','JHARKHAND');  
  
1 row created.
```

```
SQL> SELECT * FROM IES_COLLEGE;
```

STUDENT_ID	S_NAME	BRANCH	ADDRESS
1	KAJAL KUMARI	CSE	JHARKHAND

7 (b)

```
INSERT INTO  
IES_COLLEGE(STUDENT_ID,S_NAME,ADDRESS)  
VALUES(4,'KAHKESHA','UP');
```

```
SQL> INSERT INTO IES_COLLEGE(STUDENT_ID,S_NAME,ADDRESS) VALUES(4,'KAHKESHA','UP');
1 row created.

SQL> SELECT * FROM IES_COLLEGE;

STUDENT_ID S_NAME                                BRANCH
-----
ADDRESS
-----
1 KAJAL KUMARI                                CSE
JHARKHAND
4 KAHKESHA
UP
```

7 (C)

```
INSERT INTO IES_COLLEGE VALUES
('&STUDENT_ID','&S_NAME','&BRANCH','&ADDRESS'
);
```

Enter value for student_id: 8

Enter value for s_name: ROSHNI

Enter value for branch: B.SC

Enter value for address: MP

Old 2:

```
VALUES('&STUDENT_ID','&S_NAME','&BRANCH','&A
DDRESS')
```

New 2: VALUES('8','ROSHNI','B.SC','MP')

```

SQL> INSERT INTO IES_COLLEGE VALUES ('&STUDENT_ID','&S_NAME','&BRANCH','&ADDRESS');
Enter value for student_id: 9
Enter value for s_name: ALKA
Enter value for branch: CSE
Enter value for address: MP
old 1: INSERT INTO IES_COLLEGE VALUES ('&STUDENT_ID','&S_NAME','&BRANCH','&ADDRESS')
new 1: INSERT INTO IES_COLLEGE VALUES ('9','ALKA','CSE','MP')

1 row created.

SQL> SELECT * FROM IES_COLLEGE;

STUDENT_ID S_NAME                                BRANCH
-----
ADDRESS
-----
1 KAJAL KUMARI                                CSE
JHARKHAND
4 KAHKESHA
UP
8 ROSHNI                                BSC
MP
9 ALKA                                CSE
MP

```

Q 8: Create one table of dummy table of IES_COLLEGE and delete the second record.

CREATE TABLE DUMMY AS SELECT * FROM IES_COLLEGE;

```

SQL> CREATE TABLE DUMMY AS SELECT * FROM IES_COLLEGE;
Table created.

SQL> SELECT * FROM DUMMY;

STUDENT_ID S_NAME                                BRANCH  ADDRESS
-----
1 KAJAL KUMARI                                CSE      JHARKHAND
4 KAHKESHA                                UP
8 ROSHNI                                BSC      MP
9 ALKA                                CSE      MP

SQL> DELETE FROM IES_COLLEGE
2 WHERE S_NAME = 'KAHKESHA';

1 row deleted.

SQL> SELECT * FROM IES_COLLEGE;

STUDENT_ID S_NAME                                BRANCH  ADDRESS
-----
1 KAJAL KUMARI                                CSE      JHARKHAND
8 ROSHNI                                BSC      MP
9 ALKA                                CSE      MP

```

Q 9: write a command for DROP, DELETE, TRUNCATE, PURGE, ROLLBACK, COMMIT

Commit –COMMIT;

```
SQL> COMMIT;  
  
Commit complete.
```

Truncate – TRUNCATE TABLE IES_COLLEGE;

```
SQL> TRUNCATE TABLE IES_COLLEGE;  
  
Table truncated.
```

Purge – PURGE TABLE IES_COLLEGE;

```
SQL> PURGE TABLE IES_COLLEGE;
```

Drop – DROP TABLE IES_COLLEGE;

```
SQL> DROP TABLE IES_COLLEGE;  
  
Table dropped.
```

Rollback – FLASHBACK TABLE IES_COLLEGE TO BEFORE DROP;

```
SQL> FLASHBACK TABLE IES_COLLEGE TO BEFORE DROP;
```