

```

-- QUERY TO CREATE DATABASE AND USE DATABASE
CREATE DATABASE UNIVERSITY;
USE UNIVERSITY;

-- QUERY TO CREATE TABLE WITH PRIMARY KEY
CREATE TABLE DEPARTMENT(
    ID INTEGER PRIMARY KEY IDENTITY(1,1),
    DEPT_NAME VARCHAR(50) NOT NULL
);

-- QUERY TO RENAME TABLE
EXEC sp_rename 'DEPARTMENT', 'DEPARTMENTS';

-- QUERY TO CREATE TABLE WITH PRIMARY KEY AND FOREIGN KEY
CREATE TABLE STUDENTS(
    REG_NUMBER VARCHAR(10) PRIMARY KEY,
    FULL_NAME VARCHAR(50),
    AGE INTEGER,
    DEPT_ID INTEGER FOREIGN KEY REFERENCES DEPARTMENTS(ID) ON
DELETE CASCADE
);

CREATE TABLE TEMP(
    ID INTEGER,
    VAL VARCHAR(10)
);

-- QUERY TO SHOW COLUMN NAMES OF TABLE
SELECT COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS WHERE TABLE_NAME
= 'STUDENTS';

```

Output:

	COLUMN_NAME
1	REG_NUMBER
2	FULL_NAME
3	AGE
4	DEPT_ID

```

-- QUERY TO ALTER TABLE
ALTER TABLE STUDENTS
ADD SGPA DECIMAL(5, 2);

```

```
SELECT COLUMN_NAME FROM INFORMATION_SCHEMA.COLUMNS WHERE TABLE_NAME
= 'STUDENTS';
```

Output:

	COLUMN_NAME
1	REG_NUMBER
2	FULL_NAME
3	AGE
4	DEPT_ID
5	SGPA

```
-- QUERY TO SHOW ALL TABLES IN DATABASE
SELECT* FROM UNIVERSITY.INFORMATION_SCHEMA.TABLES;
```

Output:

	TABLE_CATALO...	TABLE_SCHEM...	TABLE_NAME	TABLE_TYPE
1	UNIVERSITY	dbo	DEPARTMEN...	BASE TABL...
2	UNIVERSITY	dbo	STUDENTS	BASE TABL...
3	UNIVERSITY	dbo	TEMP	BASE TABL...

```
-- QUERY TO DROP THE TABLE
DROP TABLE TEMP;
```

```
SELECT* FROM UNIVERSITY.INFORMATION_SCHEMA.TABLES;
```

Output:

	TABLE_CATALO...	TABLE_SCHEM...	TABLE_NAME	TABLE_TYPE
1	UNIVERSITY	dbo	DEPARTMEN...	BASE TABL...
2	UNIVERSITY	dbo	STUDENTS	BASE TABL...

```
-- QUERY TO INSERT DATA INTO TABLE
INSERT INTO DEPARTMENTS(DEPT_NAME) VALUES('MATHEMATICS');
INSERT INTO DEPARTMENTS(DEPT_NAME) VALUES('COMPUTER SCIENCE');

INSERT INTO STUDENTS(REG_NUMBER, FULL_NAME, AGE, DEPT_ID, SGPA)
VALUES('2020BCS512', 'SHINDE CHAITANYA ADINATH', 20, 2, 92.5);
INSERT INTO STUDENTS(REG_NUMBER, FULL_NAME, AGE, DEPT_ID, SGPA)
VALUES('2020BCS513', 'CHAUDHARI AKASH DATTA', 19, 1, 94.5);
```

```
-- QUERY TO SHOW DATA FROM TABLE  
SELECT * FROM DEPARTMENTS;
```

Output:

	ID	DEPT_NAME
1	1	MATHEMATICS
2	2	COMPUTER SCIEN...

```
SELECT * FROM STUDENTS;
```

Output:

	REG_NUMBER	FULL_NAME	AGE	DEPT_ID	SGPA
1	2020BCS512	SHINDE CHAITANYA ADIN...	20	2	92.50
2	2020BCS513	CHAUDHARI AKASH DATTA	19	1	94.50

```
-- QUERY TO TRUNCATE DATA FROM TABLE  
TRUNCATE TABLE STUDENTS;
```

```
SELECT * FROM STUDENTS;
```

```
-- QUERY TO DROP DATABASE  
USE master;  
ALTER DATABASE UNIVERSITY SET SINGLE_USER WITH ROLLBACK IMMEDIATE;  
DROP DATABASE UNIVERSITY ;
```