CREATING TABLE:

Now we are going to create our own table,

CREATE TABLE();

DATA TYPES:

INT - numbers

DECIMAL - (M.N)

VARCHAR - strings

BLOB - binary object, stores large data

DATE - (YYYY-MM-DD)

TIMESTAMP - (YYYY-MM-DD.HH:MM:SS)

ADDING COLUMNS IN TABLE:

```
CREATE TABLE student(
Student_id INT PRIMARY KEY(),
Name VARCHAR(20),
age INT,
Gender VARCHAR(10),
Email VARCHAR(30),
Dob DATE,
Major VARCHAR(40)
);
```

INSERTING VALUES:

```
INSERT INTO student VALUES (1, 'swetha',
22 , 'female' , 'swethajk@gmail.com' , 2001-03-15 ,
'bio');
INSERT INTO student VALUES (2, 'sowmiya', 23,
'female', 'sow@gmail.com', 2001-11-25, 'bio');
So on .....,
TO GRAB ALL INFO:
SELECT * FROM student;
DELETE THE TABLE:
DROP TABLE student;
DELETE FROM student
```

WHERE name = 'sowmiya' AND major = 'bio';

DELETE FROM student;

TO ALTER:

ALTER TABLE student ADD gpa DECIMAL(M,N);

TO UPDATE:

UPDATE student SET major = 'biology' WHERE major = 'bio';

UPDATE student

SET major = 'computer science'

WHERE student_id = 4;

UPDATE student
SET major = 'biochemistry'
WHERE major = 'bio' or major = 'chemistry';

Q & A:

Complete the following task:

Create a new database called "School" this database should have two tables: **teachers** and **students**.

The **students** table should have columns for student_id, first_name,last_name, homeroom_number, phone,email, and graduation year.

The **teachers** table should have columns for teacher_id, first_na me, last_name,

homeroom_number, department, email, and phone.

The constraints are mostly up to you, but your table constraints do have to consider the following:

- We must have a phone number to contact students in case of an emergency.
- 2. We must have ids as the primary key of the tables
- 3. Phone numbers and emails must be unique to the individual.

Once you've made the tables, insert a student named Mark Watney (student_id=1) who has a phone number of 777-555-1234 and doesn't have an email. He graduates in 2035 and has 5 as a homeroom number.

Then insert a teacher names Jonas Salk (teacher_id = 1) who as a homeroom number of 5 and is from the Biology department. His contact info is: jsalk@school.org and a phone number of 777-555-4321.

Keep in mind that these insert tasks may affect your constraints!

ANSWERS:

To create the students table:

```
CREATE TABLE students(

student_id serial PRIMARY KEY,

first_name VARCHAR(45) NOT NULL,

last_name VARCHAR(45) NOT NULL,

homeroom_number integer,

phone VARCHAR(20) UNIQUE NOT NULL,

email VARCHAR(115) UNIQUE,

grad_year integer);
```

To create the teachers table:

```
CREATE TABLE teachers(
teacher_id serial PRIMARY KEY,
first_name VARCHAR(45) NOT NULL,
last_name VARCHAR(45) NOT NULL,
homeroom_number integer,
department VARCHAR(45),
email VARCHAR(20) UNIQUE,
phone VARCHAR(20) UNIQUE);
```

Then for inserting the student information:

```
INSERT INTO
students(first_name,last_name, homeroom_number,phone,grad_year)VALUES
('Mark','Watney',5,'7755551234',2035);
```

Then for inserting the teacher information:

```
INSERT INTO
teachers(first_name,last_name, homeroom_number,department,email,phone)VALUE
S ('Jonas','Salk',5,'Biology','jsalk@school.org','7755554321');
```

Assessment Test 3

Assessment Test 3

Welcome to your final assessment test! This will test your knowledge of the previous section, focused on creating databases and table operations. This test will actually consist of a more open-ended assignment below:

Complete the following task:

Create a new database called "School" this database should have two tables: **teachers** and **students**.

The **students** table should have columns for student_id, first_name,last_name, homeroom_number, phone,email, and graduation year. The **teachers** table should have columns for teacher_id, first_name, last_name, homeroom_number, department, email, and phone.

The constraints are mostly up to you, but your table constraints do have to consider the following:

- 1} We must have a phone number to contact students in case of an emergency.
- 2} We must have ids as the primary key of the tables
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Once you've made the tables, insert a student named Mark Watney (student_id=1) who has a phone number of 777-555-1234 and doesn't have an email. He graduates in 2035 and has 5 as a homeroom number.

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Keep in mind that these insert tasks may affect your constraints!