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```sql
-- STUDENT TABLE


-- PRIMARY KEY
-- Scenario 1: assign first_name as primary key

-- create student table with the following columns
create table student (
        first_name varchar(50) primary key,
        last_name varchar(50),
        id varchar(50),
        phone_number bigint,
        email_address varchar(100)
);


-- insert values into student table
insert into student values
('Varun', 'Hande', 'USF001', 4151234567, 'varun@usfca.edu'),
('Sanchita', 'Jain', 'USF002', 4151234576, 'sanchita@usfca.edu'),
('Sharon', 'Dodda', 'USF003', 4151234675, 'sharon@usfca.edu'),
('Kevin', 'Kimmel', 'USF004', 4151235674, 'kevinkim@usfca.edu'),
('Kevin', 'Yang', 'USF005', 4151245673, 'kevinyang@usfca.edu'); -- fails because 'Kevin' is
repeated; PK must have unique values


-- delete table
drop table student;


-- Scenario 2: assign id as primary key

-- create student table with the following columns and 'id' as the primary key
create table student (
        first_name varchar(50),
        last_name varchar(50),
        id varchar(50) primary key,
        phone_number bigint,
        email_address varchar(100)
);


-- insert values into student table
insert into student values
('Varun', 'Hande', 'USF001', 4151234567, 'varun@usfca.edu'),
('Sanchita', 'Jain', 'USF002', 4151234576, 'sanchita@usfca.edu'),
('Sharon', 'Dodda', 'USF003', 4151234675, 'sharon@usfca.edu'),
('Kevin', 'Kimmel', 'USF004', 4151235674, 'kevinkim@usfca.edu'),
('Kevin', 'Yang', 'USF005', 4151245673, 'kevinyang@usfca.edu');


-- show contents of student table
select * from student;
```

```
-- try inserting null value in primary key column
insert into student values ('Akul', 'Bajaj', null, 4151223007, 'akul@usfca.edu');


-- show contents of student table
select * from student

-- drop table
drop table student;


-- UNIQUE KEY
-- create student table with the following columns
create table student (
        first_name varchar(50),
        last_name varchar(50),
        id varchar(50)
        phone_number bigint unique,
        email_address varchar(100) unique
);
-- insert values into student table
insert into student values
('Varun', 'Hande', 'USF001', 4151234567, 'varun@usfca.edu'),
('Sanchita', 'Jain', 'USF002', 4151234576, 'sanchita@usfca.edu'),
('Sharon', 'Dodda', 'USF003', 4151234675, 'sharon@usfca.edu'),
('Kevin', 'Kimmel', 'USF004', 4151235674, 'kevinkim@usfca.edu'),
('Kevin', 'Yang', 'USF005', 4151245673, 'kevinyang@usfca.edu');

select * from student

-- Unique Key can also take null values
-- drop table
drop table student;


-- UNIQUE KEY
-- create student table with the following columns
create table student (
        first_name varchar(50),
        last_name varchar(50),
        id varchar(50),
        phone_number bigint unique,
        email_address varchar(100) unique
);


insert into student values
('Varun', 'Hande', 'USF001', 4151234567, 'varun@usfca.edu'),
('Sanchita', 'Jain', 'USF002', 4151234576, 'sanchita@usfca.edu'),
('Sharon', 'Dodda', 'USF003', 4151234675, 'sharon@usfca.edu'),
('Kevin', 'Kimmel', 'USF004', 4151235674, 'kevinkim@usfca.edu'),
('Kevin', 'Yang', 'USF005', 4151245673, 'kevinyang@usfca.edu');

insert into student values ('Akul', 'Bajaj', 'USF006', null, 'akul@usfca.edu');


select * from student


-- drop table
```

```sql
drop table student;


-- show contents of student table
select * from student


-- MSDS610 TABLE

-- create msds610 table with the following columns
create table msds610 (
        id varchar(50) REFERENCES student(id),
        section int,
        grade varchar(5),
        email varchar(50)
        );

--drop table msds610;
-- insert values into msds601 table
insert into msds610 values
( 'USF001',1,'A', 'varun@usfca.edu'),
('USF002',1,'A', 'sanchita@usfca.edu'),
('USF003',1,'A', 'sharon@usfca.edu'),
('USF004',1,'A', 'kevinkim@usfca.edu'),
('USF005',1,'A', 'kevinyang@usfca.edu');

insert into msds610 values ('USF006',1,'A', 'akul@usfca.edu');

insert into msds610 values ('USF007',1,'A', 'akul@usfca.edu');

-- show contents of msds601 table
select * from msds610;
```