

1. Create a table called person that records a person's id, name, age, height (in cm), city, favorite_color.
 - o id should be an auto-incrementing id/primary key - Use type: SERIAL

```
create table person (  
  id serial PRIMARY KEY,  
  name varchar(255),  
  age int,  
  height int,  
  city char(255),  
  favorite_color char(255));
```

2. Add 5 different people into the person database.
 - o Remember to not include the person_id because it should auto-increment.

```
insert into person (name, age, height, city, favorite_color) values  
( 'Mike', 21, 182, 'Dallas', 'red'),  
( 'Fred', 21, 152, 'Dallas', 'green'),  
( 'John', 21, 162, 'Dallas', 'blue'),  
( 'Molly', 21, 172, 'Dallas', 'orange'),  
( 'Mary', 21, 180, 'Dallas', 'red');
```

3. List all the people in the person table by height from tallest to shortest.

```
select * from person order by height desc
```

| id | name | age | height | city | favorite_color |
|----|-------|-----|--------|--------|----------------|
| 1 | Mike | 21 | 182 | Dallas | red |
| 5 | Mary | 21 | 180 | Dallas | red |
| 4 | Molly | 21 | 172 | Dallas | orange |
| 3 | John | 21 | 162 | Dallas | blue |
| 2 | Fred | 21 | 152 | Dallas | green |

4. List all the people in the person table by height from shortest to tallest.

```
select * from person order by height
```

| id | name | age | height | city | favorite_color |
|----|------|-----|--------|--------|----------------|
| 2 | Fred | 21 | 152 | Dallas | green |

| | | | | | |
|---|-------|----|-----|--------|--------|
| 3 | John | 21 | 162 | Dallas | blue |
| 4 | Molly | 21 | 172 | Dallas | orange |
| 5 | Mary | 21 | 180 | Dallas | red |
| 1 | Mike | 21 | 182 | Dallas | red |

5. List all the people in the person table by age from oldest to youngest.

```
select * from person order by age desc
```

| id | name | age | height | city | favorite_color |
|-----------|-------------|------------|---------------|-------------|-----------------------|
| 1 | Mike | 21 | 182 | Dallas | red |
| 2 | Fred | 21 | 152 | Dallas | green |
| 3 | John | 21 | 162 | Dallas | blue |
| 4 | Molly | 21 | 172 | Dallas | orange |
| 5 | Mary | 21 | 180 | Dallas | red |

6. List all the people in the person table older than age 20.

```
select * from person where age > 20
```

| id | name | age | height | city | favorite_color |
|-----------|-------------|------------|---------------|-------------|-----------------------|
| 1 | Mike | 21 | 182 | Dallas | red |
| 2 | Fred | 21 | 152 | Dallas | green |
| 3 | John | 21 | 162 | Dallas | blue |
| 4 | Molly | 21 | 172 | Dallas | orange |
| 5 | Mary | 21 | 180 | Dallas | red |

7. List all the people in the person table that are exactly 18.

```
select * from person where age = 18
```

Query ran successfully. 0 rows to display.

8. List all the people in the person table that are less than 20 and older than 30.

```
select * from person where age < 20 OR age > 30
```

Query ran successfully. 0 rows to display.

9. List all the people in the person table that are not 27 (Use not equals).

```
select * from person where age < > 27
```

| id | name | age | height | city | favorite_color |
|----|-------|-----|--------|--------|----------------|
| 1 | Mike | 21 | 182 | Dallas | red |
| 2 | Fred | 21 | 152 | Dallas | green |
| 3 | John | 21 | 162 | Dallas | blue |
| 4 | Molly | 21 | 172 | Dallas | orange |
| 5 | Mary | 21 | 180 | Dallas | red |

10. List all the people in the person table where their favorite color is not red.

```
select * from person where favorite_color != 'red'
```

| id | name | age | height | city | favorite_color |
|----|-------|-----|--------|--------|----------------|
| 2 | Fred | 21 | 152 | Dallas | green |
| 3 | John | 21 | 162 | Dallas | blue |
| 4 | Molly | 21 | 172 | Dallas | orange |

11. List all the people in the person table where their favorite color is not red and is not blue.

```
select * from person where favorite_color not in ('red', 'blue')
```

| id | name | age | height | city | favorite_color |
|-----------|-------------|------------|---------------|-------------|-----------------------|
| 2 | Fred | 21 | 152 | Dallas | green |
| 4 | Molly | 21 | 172 | Dallas | orange |

12. List all the people in the person table where their favorite color is orange or green.

```
select * from person where favorite_color in ('orange', 'green')
```

| id | name | age | height | city | favorite_color |
|-----------|-------------|------------|---------------|-------------|-----------------------|
| 2 | Fred | 21 | 152 | Dallas | green |
| 4 | Molly | 21 | 172 | Dallas | orange |

13. List all the people in the person table where their favorite color is orange, green or blue (use IN).

```
select * from person where favorite_color in ('orange', 'green', 'blue')
```

| id | name | age | height | city | favorite_color |
|-----------|-------------|------------|---------------|-------------|-----------------------|
| 2 | Fred | 21 | 152 | Dallas | green |
| 3 | John | 21 | 162 | Dallas | blue |
| 4 | Molly | 21 | 172 | Dallas | orange |

14. List all the people in the person table where their favorite color is yellow or purple (use IN).

```
select * from person where favorite_color in ('yellow', 'purple')
```

Query ran successfully. 0 rows to display.

<https://github.com/TJTexasFTW/sql-1-afternoon - solution>