

### CREATE A TABLE

```
CREATE TABLE restaurants (  
  id serial PRIMARY KEY,  
  name text NOT NULL,  
  nyc_restaurant_id integer,  
  borough borough_options,  
  cuisine text,  
  address_building_number text,  
  address_street text,  
  address_zipcode text  
);
```

### INSERT A ROW

```
INSERT INTO restaurants  
  (name, borough, cuisine, address_building_number, address_street, address_zipcode)  
VALUES  
  ('Prince Taco', 'Queens', 'Mexican', '620', 'Astoria Boulevard', '11372');
```

### ENUMERATIONS

```
CREATE TYPE mood AS ENUM ('sad', 'ok', 'happy');  
CREATE TABLE person (  
  name text,  
  current_mood mood  
);  
INSERT INTO person VALUES ('Moe', 'happy');  
INSERT INTO person VALUES ('Larry', 'sad');  
INSERT INTO person VALUES ('Curly', 'ok');  
  
SELECT * FROM person WHERE current_mood = 'happy';  
name | current_mood  
-----+-----  
Moe | happy  
  
SELECT * FROM person WHERE current_mood > 'sad';  
name | current_mood  
-----+-----  
Moe | happy  
Curly | ok
```



### EXAMPLE QUERYING

```
SELECT * from restaurants;
SELECT id, name, borough, cuisine
FROM restaurants;
SELECT DISTINCT borough
FROM restaurants;
SELECT id, name, borough, cuisine
FROM restaurants
WHERE id='225';
SELECT name, borough, cuisine FROM restaurants
WHERE borough = 'Brooklyn'
AND cuisine = 'Italian';
SELECT name, borough, cuisine FROM restaurants
WHERE borough = 'Brooklyn'
AND cuisine in ('Italian', 'Chinese');
```

### UPDATING

```
UPDATE restaurants
  SET name = 'Famous Original Ray''s Pizza'
  WHERE id = 5269;
UPDATE restaurants
  SET cuisine = 'Vegetarian'
  WHERE cuisine = 'Pizza';
```

### ORDERING AND LIMITING RESULTS

```
SELECT id, name from restaurants
WHERE borough = 'Bronx'
AND cuisine = 'Japanese'
ORDER BY name DESC;
SELECT id, name
FROM restaurants
ORDER BY name DESC;
LIMIT 3;
```



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Page 2 of 3.

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### AGGREGATE: COUNT, MAX, MIN, & AVG

```
SELECT count(*) FROM grades;  
SELECT max(score) FROM grades;  
SELECT min(score) FROM grades;  
SELECT avg(score) FROM grades;
```

### DELETING

```
DELETE FROM restaurants WHERE id = 225;  
DELETE FROM grades WHERE grade = 'Z';  
DELETE FROM grades; -- BEWARE: DELETES ALL ROWS IN GRADES!
```

### DROP A TABLE

```
DROP TABLE restaurants;
```



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Page 3 of 3.

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