Name : Claudio Panebianco

Lesson 9: Insert and Update

--Create a table with the following parameters: CustomerID, CustomerName, Address, City, PostalCode, Country, Email

```
DROP TABLE customer;

CREATE TABLE customer (
customer_id SERIAL PRIMARY KEY,
customer_name VARCHAR (255) NOT NULL,
address VARCHAR(255)NOT NULL,
city VARCHAR(255),
postal_code int,
country VARCHAR(255),
email VARCHAR(255));
```

--Insert 3 rows of data into these columns using INSERT. The data you insert should make sense for the column.

```
INSERT INTO customer (customer_name, address, city, postal_code, country, email) VALUES
('Thalia', '789548 35 avenue', 'Dallas', 11974, 'USA', 'thalia@gmail.com'),
('Cassio', '3254 34 avenue', 'Los Angeles', 15744, 'USA', 'cassio@gmail.com'),
('Priscila', '00145 32 avenue', 'Concord', 11274, 'USA', 'priscila@gmail.com');
SELECT * FROM customer;
```

	customer_id [PK] integer	customer_name character varying (255)	address character varying (255)	city character varying (255)	postal_code integer	country character varying (255)	email character varying (255)
1	1	Thalia	789548 35 avenue	Dallas	11974	USA	thalia@gmail.com
2	2	Cassio	3254 34 avenue	Los Angeles	15744	USA	cassio@gmail.com
3	3	Priscila	00145 32 avenue	Concord	11274	USA	priscila@gmail.com

--Use an UPDATE to modify any portion of the data

```
UPDATE customer

SET country= 'Italy'

WHERE customer_id=1;

SELECT * FROM customer

Order by customer_id ASC;
```

	customer_id [PK] integer	customer_name character varying (255)	address character varying (255)	city character varying (255)	postal_code integer	country character varying (255)	email character varying (255)
1	1	Thalia	789548 35 avenue	Dallas	11974	Italy	thalia@gmail.com
2	2	Cassio	3254 34 avenue	Los Angeles	15744	USA	cassio@gmail.com
3	3	Priscila	00145 32 avenue	Concord	11274	USA	priscila@gmail.com

--Finally, write a statement to delete one row of data.

```
DELETE FROM customer

WHERE customer_id=3;

SELECT * FROM customer

Order by customer_id ASC;
```

	customer_id [PK] integer	customer_name character varying (255)	address character varying (255)	city character varying (255)	postal_code integer	country character varying (255)	email character varying (255)
1	1	Thalia	789548 35 avenue	Dallas	11974	Italy	thalia@gmail.com
2	2	Cassio	3254 34 avenue	Los Angeles	15744	USA	cassio@gmail.com

--Using the following Link, first you have to create a table than upload the data ,safe the table in to your Laptop and change the path accordingly.usr

```
DROP TABLE IF EXISTS Student;

CREATE TABLE student (

id serial PRIMARY KEY,

   first_name VARCHAR(255),

   last_name VARCHAR(255),

   email VARCHAR(255),

   gender VARCHAR(255),

   work_phone VARCHAR(55),

   book_preference_hardcopy boolean);
```

COPY student(first_name,last_name,email,gender,work_phone,book_preference_hardcopy)

-- set the path for file location of student_data.csv

FROM 'C:\Program Files\PostgreSQL\14\bin\Student_data.csv'

delimiter ',' CSV header;

--copy student (first_name, last_name, email, gender, work_phone, book_preference_hardcopy), and attache data set (Student_data and Student_marks) answer the following questions: students with the highest marks in

SELECT student.first_name, student.last_name,student.id,student_marks.id,student_marks.unit4 FROM student

INNER JOIN student_marks ON student.id=student_marks.id

ORDER BY unit4 desc;

	first_name character varying (255)	last_name character varying (255)	id integer	id integer	unit4 integer
1	Nobe	Abrashkin	779	779	82
2	Peyton	Nixon	953	953	82
3	Kimberli	Le Frank	663	663	82
4	Glenn	Le Lievre	773	773	82
5	Laraine	Wordley	894	894	82
6	Glennis	Trowler	939	939	82
7	Kamila	Shortell	524	524	82
8	Richie	Coslitt	633	633	82
9	Lynnet	Maffy	679	679	82
10	Gualterio	Hargerie	744	744	82
11	Herbie	Midlane	832	832	82
12	Noll	Petrushkevich	843	843	82
13	Jonathan	McQuillan	903	903	82
14	Ebonee	Winchurch	932	932	82
15	Essa	Bettesworth	288	288	82
16	Arny	Glasman	522	522	82
17	Cortney	Vondrach	545	545	82
18	Yanaton	Lambirth	621	621	82
19	Anna-diane	Cargill	319	319	82
20	Gaylor	Lintin	676	676	82

-- Find students scored between 89 and 100 unit4

```
SELECT student.first_name, student.last_name, student.id, student_marks.id,student_marks.unit4 FROM student

INNER JOIN student_marks ON student.id=student_marks.id

where unit4 between 89 AND 100

ORDER BY unit4 asc;
```

	first_name character varying (255)	last_name character varying (255)	id integer	id integer	unit4 integer
1	Barbi	Fourmy	321	321	89
2	Clemmie	Ronan	437	437	89
3	Louisa	Beteriss	268	268	89
4	Harriett	Lockner	252	252	89
5	Joete	Syer	542	542	89
6	Mikey	Cahalin	467	467	89
7	Susi	Rickarsey	959	959	89
8	Augustus	Helwig	770	770	89
9	Tasia	Stigers	95	95	89
10	Lyman	Boam	258	258	89
11	Wheeler	Mulvenna	259	259	89
12	Sam	Aupol	554	554	89
13	Ailina	Detloff	481	481	89
14	Gavin	Atkyns	982	982	89
15	Bord	Hunnicot	755	755	89
16	Harvey	Kinzel	143	143	89
17	Hobey	Ridge	742	742	89
18	Rainer	Schneidau	606	606	89
19	Shina	Freund	4	4	89

--Open ended questions:Take a closer look at the tables that you created and come up with 10 different scenarios/questions and form SQL

--1)Does any student have my name (Claudio)?

SELECT first_name FROM student

Where first_name LIKE 'Cla%';

	first_name character varying (255)
1	Clarance
2	Clareta
3	Clayson
4	Clari
5	Clarey

--2)Does any student have my lastname (Panebianco)?

SELECT last_name FROM student

Where first_name LIKE 'Pane%';

	last_name character varying (255)

There is not any student with my same lastname.

--3)How many male students there are?

SELECT COUNT (gender) FROM student WHERE GENDER='Male';

	count bigint
1	525

--4)How many female students there are?

SELECT COUNT (gender) FROM student WHERE GENDER='Female';

	count bigint
1	475

--5)How many workphones begin with (212)?

select last_name, work_phone from student where work_phone like '212%';

	last_name character varying (255)	work_phone character varying (55)
1	Lightowler	212-492-7259
2	Kimbley	212-628-2775

--6)How many students have the letter C in their first name?

select count (first_name) from student where first_name like 'C%';

	count bigint
1	80

--7)How many students have the letter C in their lastname?

select count (last_name) from student where last_name like 'C%';

	average numeric
1	93.23700000

--8)Find the average grade of all students.

select avg(unit2+unit3+unit4+unit5)/4 as Average from student_marks;

	count bigint
1	86

--9)Find the average grade of each student.

select student_id, avg(unit2+unit3+unit4+unit5)/4 as Average from student_marks

GROUP BY student_id;

	student_id integer	average numeric
1	652	94.25000000
2	273	91.25000000
3	51	93.00000000
4	951	93.00000000
5	839	91.50000000
6	70	96.25000000
7	350	97.75000000
8	758	97.00000000
9	539	93.50000000
10	874	97.50000000
11	278	90.75000000
12	946	95.50000000
13	176	90.00000000
14	576	95.50000000
15	292	93.00000000
16	929	95.75000000
17	663	88.75000000
18	770	92.25000000
19	271	97.25000000
20	22	93.75000000

--10) How many students use edu?

select count (email) from student where email like '%edu%';

	count bigint
1	52