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## Lesson 9: Insert and Update

1. **Create** a table with the following parameters:

- CustomerID
- CustomerName
- Address
- City
- PostalCode
- Country
- Email

```
create table customers2 (  
  
customer_id serial primary key, customer_name varchar(50) not null,  
  
address varchar(50) not null, city varchar(50) not null,  
  
postalcode integer not null, country varchar(50),  
  
email varchar(50)  
  
)
```

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

```
insert into customers2(customer_name, address, city, postalcode, country, email)  
  
values ('Jerry Seinfeld', '129 West 81st St', 'New York', 10024, 'US',  
  
'jseinfeld@gmail.com')
```

```
insert into customers2(customer_name, address, city, postalcode, country, email)  
  
values ('Monica Geller', '90 Bedford St', 'New York', 10014, 'US',  
  
'monicageller@gmail.com')
```

```
insert into customers2(customer_name, address, city, postalcode, country, email)  
  
values ('Walter White', '308 Negra Arroyo Lane', 'Albuquerque', 87104, 'US',  
  
'wwhite@gmail.com')
```

**select \* from customers2**

	customer_id [PK] integer	customer_name character varying (50)	address character varying (50)	city character varying (50)	postalcode integer	country character varying (50)	email character varying (50)
1	1	Jerry Seinfeld	129 West 81st St	New York	10024	US	jseinfeld@gmail.com
2	2	Monica Geller	90 Bedford St	New York	10014	US	monicageller@gmail.co...
3	3	Walter White	308 Negra Arroyo Lane	Albuquerque	87104	US	wwhite@gmail.com

3. Use an **UPDATE** to modify any portion of the data

**update customers2 set email = 'mgeller@gmail.com' where customer\_name = 'Monica Geller'**

**select \* from customers2 order by customer\_id**

	customer_id [PK] integer	customer_name character varying (50)	address character varying (50)	city character varying (50)	postalcode integer	country character varying (50)	email character varying (50)
1	1	Jerry Seinfeld	129 West 81st St	New York	10024	US	jseinfeld@gmail.com
2	2	Monica Geller	90 Bedford St	New York	10014	US	mgeller@gmail.com
3	3	Walter White	308 Negra Arroyo Lane	Albuquerque	87104	US	wwhite@gmail.com

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

**delete from customers2 where customer\_id = 3**

**select \* from customers2**

	customer_id [PK] integer	customer_name character varying (50)	address character varying (50)	city character varying (50)	postalcode integer	country character varying (50)	email character varying (50)
1	1	Jerry Seinfeld	129 West 81st St	New York	10024	US	jseinfeld@gmail.com
2	2	Monica Geller	90 Bedford St	New York	10014	US	mgeller@gmail.com

Using the following Link

[https://github.com/niteen11/cuny\\_lagcc\\_micro\\_credential\\_data\\_analytics/tree/main/Track%20A/Unit%205%20-%20SQL\\_%20Relational%20Databases/guided%20exercise](https://github.com/niteen11/cuny_lagcc_micro_credential_data_analytics/tree/main/Track%20A/Unit%205%20-%20SQL_%20Relational%20Databases/guided%20exercise)

First you have to create a table than upload the data ,save the table in to your Laptop and change the path accordingly.usr the following link for creating table,

[https://github.com/niteen11/cuny\\_lagcc\\_micro\\_credential\\_data\\_analytics/blob/main/Track%20A/Unit%205%20-%20SQL\\_%20Relational%20Databases/guided%20exercise/student.sql](https://github.com/niteen11/cuny_lagcc_micro_credential_data_analytics/blob/main/Track%20A/Unit%205%20-%20SQL_%20Relational%20Databases/guided%20exercise/student.sql)

And attached data set (Student\_data and Student\_marks ) answer the following questions :

5. Students with the highest marks in Unit 4

**select student\_id, first\_name, last\_name, unit4 from student\_marks m**

**left join student s on m.student\_id = s.id**

**where unit4 = 100**

	student_id integer	first_name character varying	last_name character varying	unit4 integer
1	31	Mollie	Maccrie	100
2	48	Thomasin	Melmoth	100
3	49	Boothe	Vonderdell	100
4	109	Kacie	Kiddle	100
5	129	Caritta	Janek	100
6	134	Ellerey	Colerick	100
7	153	Cathryn	Bolver	100
8	159	Anette	Polding	100

6. Find students who scored between 89 and 100 in unit 5

```
select student_id, first_name, last_name, unit5 from student_marks m
left join student s on m.student_id = s.id
where unit5 between 89 and 100
```

	student_id integer	first_name character varying	last_name character varying	unit5 integer
1	1	Tiebold	Steers	92
2	2	Pippo	Mougeot	95
3	3	Ree	Cornish	95
4	4	Shina	Freund	100
5	5	Darby	Winley	95
6	7	Emmet	Valencia	98
7	9	Susy	Widdison	97
8	10	Kenneth	Frankish	90

7. Take a closer look at the tables that you created and come up with 5 different scenarios/ questions and form SQL

- List students scored a perfect score in unit 2 and unit 3


```
select student_id, first_name, last_name, unit2, unit3 from student_marks m
left join student s
on m.student_id = s.id
where unit2 = 100 and unit3 = 100
```

	student_id integer	first_name character varying	last_name character varying	unit2 integer	unit3 integer
1	14	Gian	Jaskowicz	100	100
2	121	Hobie	Rainton	100	100
3	328	Pierre	Nise	100	100
4	453	Joseph	Tourner	100	100
5	583	Annabelle	Stenhouse	100	100
6	617	Lukas	Dies	100	100
7	771	Clari	MacCartan	100	100
8	861	Thorn	Frossell	100	100
9	914	Franklyn	Donne	100	100

- *How many students scored a perfect score in unit 2 and unit 3*

**select count(distinct student\_id) from student\_marks**

**where unit2 = 100 and unit3 = 100**

	count bigint 
1	9

- *Order the students name in alphabetical order*


**select first\_name, last\_name from student**

**order by 2,1**

	first_name character varying 	last_name character varying 
1	Joelie	Abazi
2	Martica	Abraham
3	Nobe	Abrashkin
4	Alleyn	Achrameev
5	Benjy	Adamov
6	Blayne	Adiscot
7	Dillie	Adshad
8	Winfield	Aers

- *How many students prefer hard copy books*

**select count(book\_preference\_hardcopy) from student where book\_preference\_hardcopy is true**

	count bigint 
1	513

- *What is the difference between students who prefer and don't prefer hard copy books*

**with sub as**

**(**

**select**

**case when book\_preference\_hardcopy is true then 1 else 0 end as like\_hardcopy,**


**case when book\_preference\_hardcopy is false then 1 else 0 end as dislike\_hardcopy**

**from student**

**)**

**select sum(like\_hardcopy) - sum(dislike\_hardcopy) as difference**

**from sub**

	difference bigint 
1	26