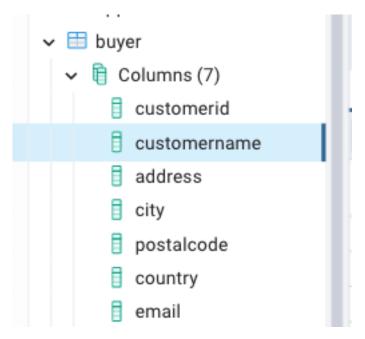
Name: Tashi palden

Lesson 9: Insert and Update

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

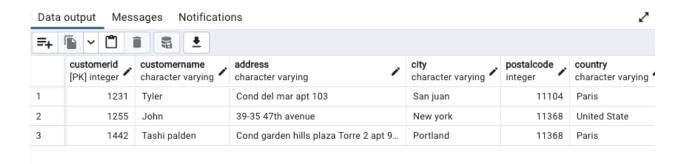
```
create table buyer
(
    customerID serial Primary key,
    CustomerName character varying,
    Address character varying,
    City character varying,
    PostalCode char ,
    Country character varying,
    Email character varying
);
```



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

insert into buyer (customerID, CustomerName,Address, City, PostalCode,Country,Email) values

(1231,'Tyler','Cond del mar apt 103','San juan',11104,'Paris','maddog@gmail.com'), (1255, 'John','39-35 47th avenue','New york','11368','United State','John53@gmail.com'), (1442,'Tashi palden','Cond garden hills plaza Torre 2 apt 905','Portland',11368,'Paris', 'Tahipaden07@gmail.com');

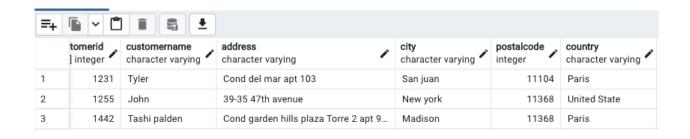


3 Use an **UPDATE** to modify any portion of the data

update buyer

set city='Madison'

#### where customername like 'Tashi palden%'



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

delete from buyer where customerid=1442

Data	output Mess	sages Notificatio	ns		
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	customerid [PK] integer	customername character varying	address character varying	city character varying	postalcode integer
1	1231	Tyler	Cond del mar apt 103	San juan	11104
2	1255	John	39-35 47th avenue	New york	11368

#### 1. Using the following Link

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

First you have to create a table than upload the data ,safe 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

```
DROP TABLE IF EXISTS student;

CREATE TABLE student

(

id serial PRIMARY KEY,

first_name character varying,

last_name character varying,

email character varying,

gender character varying,

work_phone character varying,

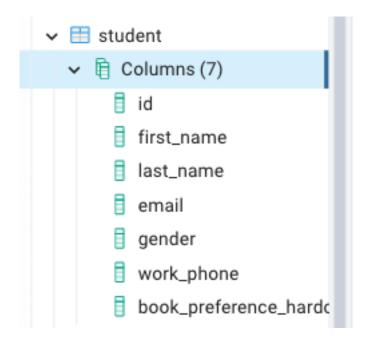
book_preference_hardcopy boolean
);

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

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

from '/Applications/PostgreSQL 14/Student_data.csv'

delimiter ',' CSV header
```



```
DROP TABLE IF EXISTS student_marks;

CREATE TABLE student_marks

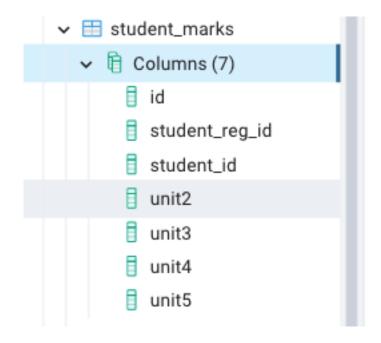
(

    id serial PRIMARY KEY,
    student_reg_id integer,
    student_id integer,
    unit2 integer,
    unit3 integer,
    unit4 integer,
    unit5 integer
);

copy student_marks(student_reg_id,student_id,unit2,unit3,unit4,unit5)
--set the path for file location of student_marks.csv

from '/Applications/PostgreSQL 14/student_marks.csv'

delimiter ',' CSV header
```



### Sample questions:

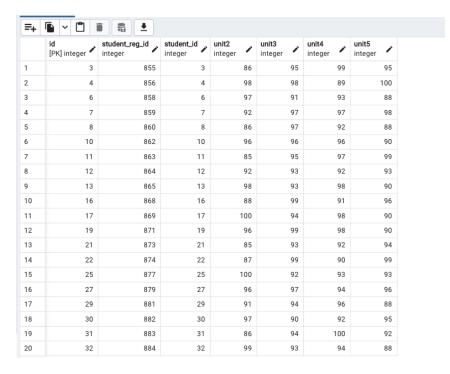
-- students with the highest marks in Unit 4

select max(unit4)as unit4\_max
from student marks



-- students scored between 89 and 100 unit4

select \* from student\_marks
where unit4>=89 and unit4<=100
limit 20;</pre>



Open ended questions:

-- Take a closer look at the tables that you created and come up with 10 different scenarios/ questions and form  ${\tt SQL}$ 

-- Ask your colleagues

--select the distinct
select unit2
from student\_marks
limit 5;

	unit2 integer	â
1		88
2		86
3		86
4		98
5		100

-- count

select count(unit4)

from student\_marks



# --filetring rows

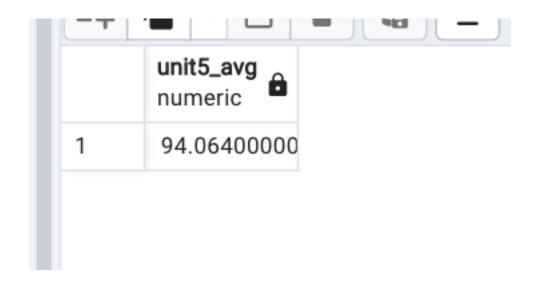
## select \* from student

where gender ='Male' and book\_preference\_hardcopy='true'

,	gender character varying	work_phone character varying	book_preference_hardcopy boolean
	Male	258-553-5054	true
	Male	108-209-3414	true
	Male	431-510-3535	true
	Male	597-265-3781	true
	Male	527-450-6922	true
	Male	958-128-3229	true
	Male	619-569-1299	true
	Male	841-689-5890	true
	Male	282-835-0551	true
	Male	217-473-8624	true

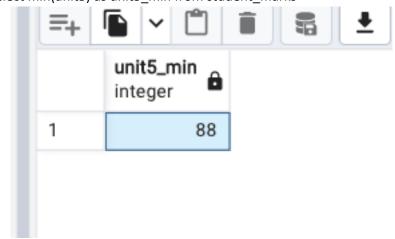
# --find the avg

select avg(unit5) as unit5\_avg from student\_marks



### --find the min

select min(unit5) as unit5\_min from student\_marks



--sorting the single columns

select \* from student\_marks order by id

	id [PK] integer	student_reg_id integer	student_id integer	unit2 integer	unit3 integer
1	1	853	1	88	ç
2	2	854	2	86	ç
3	3	855	3	86	ç
4	4	856	4	98	ç
5	5	857	5	100	ς
6	6	858	6	97	ç
7	7	859	7	92	ç
8	8	860	8	86	ç
9	9	861	9	89	ç
10	10	862	10	96	ç
11	11	863	11	85	ς
12	12	864	12	92	ç
13	13	865	13	98	ç

--sorting the multiple columns

select id , student\_reg\_id

 $from\ student\_marks$ 

order by id, student\_reg\_id;

	id [PK] integer	student_reg_id integer
1	1	853
2	2	854
3	3	855
4	4	856
5	5	857
6	6	858
7	7	859
8	8	860
9	9	861
10	10	862
11	11	863

--show group by and count
select unit2, count(unit2) from student\_marks
group by unit2

	unit2 integer	â	<b>count</b> bigint	â
1		86		49
2		85		59
3		98		71
4		95		62
5		91		57
6		92		55
7		93		68
8		89		47
9		99		61

--show the having function select unit3, avg(unit3) from student\_marks group by unit3 having avg(unit3)>95;

	unit3 integer	avg numeric
1	98	98.00000000
2	99	99.00000000
3	100	100.0000000
4	97	97.00000000
5	96	96.00000000

--show the order by select unit3, avg(unit3) from student\_marks group by unit3 having avg(unit3)>95 order by unit3

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	unit3 integer	avg numeric
1	96	96.0000000000000000
2	97	97.00000000000000000
3	98	98.0000000000000000
4	99	99.00000000000000000
5	100	100.00000000000000000