

Name: Alison Zeng  
Assignment 3

```
dvdrental/postgres@PostgreSQL:13 ~
Query Editor  Query History
1 DROP TABLE IF EXISTS student;
2 CREATE TABLE student
3 (
4     id serial PRIMARY KEY,
5     first_name character varying,
6     last_name character varying,
7     email character varying,
8     gender character varying,
9     work_phone character varying,
10    book_preference_harcopy boolean
11 );
12
13 copy student(first_name,last_name,email,gender,work_phone,book_preference_harcopy)
--set the path for file location of student_data.csv
14 from '/Users/Shared/student_data.csv'
15 delimiter ',' CSV header
16
17

Data Output Explain Messages Notifications
NOTICE: table "student" does not exist, skipping
COPY 1000
Query returned successfully in 79 msec.

Query Editor  Query History
1 SELECT * FROM student;

Data Output Explain Messages Notifications
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

Query Editor  Query History
1 SELECT * FROM student_marks;

Data Output Explain Messages Notifications
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20

Data Output Explain Messages Notifications
NOTICE: table "student_marks" does not exist, skipping
COPY 1000
Query returned successfully in 86 msec.
```

## Sample Questions:

### 1. Students with highest marks in Unit 4

Query Editor    Query History

```
1 SELECT id, unit4 FROM student_m
2 ORDER BY unit4 DESC;
```

Data Output   Explain   Messages   Notifications

	<u><a href="#">id</a></u> [PK] integer	<u><a href="#">unit4</a></u> integer
1	704	100
2	970	100
3	109	100
4	428	100
5	48	100
6	49	100
7	159	100
8	942	100
9	129	100
10	442	100
11	422	100
12	732	100
13	229	100
14	615	100
15	890	100
16	812	100

### 2. Students scored between 89 and 100 Unit 4

Query Editor    Query History

```
1 SELECT id, unit4 FROM student_marks
2 WHERE unit4 BETWEEN 89 AND 100;
```

Data Output   Explain   Messages   Notifications

	<u><a href="#">id</a></u> [PK] integer	<u><a href="#">unit4</a></u> integer
1	3	99
2	4	89
3	6	93
4	7	97
5	8	92
6	10	96
7	11	97
8	12	92
9	13	98
10	16	91
11	17	98
12	19	98
13	21	92
14	22	90
15	25	92

## Open Ended Questions:

1. Find minimum score for Unit2

Query Editor    Query History

```
1 SELECT MIN(unit2) FROM student_marks;
```

Data Output    Explain    Messages    Notifications

	min
1	85

2. Find number of students who scored 100 for Unit4

Query Editor    Query History

```
1 SELECT COUNT(unit4) FROM student_marks
2 WHERE unit4=100;
3
```

Data Output    Explain    Messages    Notifications

	count
1	43

3. Order student\_reg\_id by ascending order

Query Editor    Query History

```
1 SELECT * FROM student_marks
2 ORDER BY student_reg_id ASC;
```

Data Output    Explain    Messages    Notifications

	id [PK] integer	student_reg_id integer	student_id integer	unit2 integer	unit3 integer	unit4 integer	unit5 integer
1	1	853	1	88	96	87	92
2	2	854	2	86	99	82	95
3	3	855	3	86	95	99	95
4	4	856	4	98	98	89	100
5	5	857	5	100	94	83	95
6	6	858	6	97	91	93	88
7	7	859	7	92	97	97	98
8	8	860	8	86	97	92	88
9	9	861	9	89	97	82	97
10	10	862	10	96	96	96	90
11	11	863	11	85	95	97	99
12	12	864	12	92	93	92	93
13	13	865	13	98	93	98	90
14	14	866	14	100	100	87	100
15	15	867	15	85	99	92	97

#### 4. Find average of unit2 scores from all students

Query Editor    Query History

```
1 SELECT AVG(unit2) FROM student_marks;
```

Data Output    Explain    Messages    Notifications

	avg numeric	lock
1	92.84500000000000	

#### 5. Order last\_name by alphabetical order

Query Editor    Query History

```
1 SELECT * FROM student
2 ORDER BY last_name ASC;
```

Data Output    Explain    Messages    Notifications

	<b>id</b> [PK] integer	<b>first_name</b> character varying	<b>last_name</b> character varying	<b>email</b> character varying	<b>gender</b> character varying
1	98	Joelie	Abazi	jabazi2p@google.es	Female
2	754	Martica	Abrahim	mabrahimkx@deliciousdays.com	Female
3	779	Nobe	Abrashkin	nabrashkinlm@msn.com	Male
4	413	Alleyn	Achrameev	aachrameevbg@google.com	Male
5	540	Benjy	Adamov	badamovez@wordpress.com	Male
6	589	Blayne	Adiscot	badiscotgc@wikia.com	Male
7	814	Dillie	Adshad	dadshadml@icq.com	Male
8	855	Winfield	Aers	waersnq@cdbaby.com	Male
9	476	Maryanna	Ainsley	mainsleyd@mtv.com	Female
10	931	Rochette	Aisman	raismarpa@vinaora.com	Female
11	68	Sherman	Albin	salbin1v@geocities.com	Male
12	730	Marice	Aldersea	malderseak9@google.nl	Female
13	119	Herc	Aldis	haldis3a@booking.com	Male
14	976	Raynor	Aldwick	raldwickr3@github.com	Male

#### 6. Show students with first\_name that starts with 'A'

Query Editor    Query History

```
1 SELECT * FROM student
2 WHERE first_name LIKE 'A%';
```

Data Output    Explain    Messages    Notifications

	<b>id</b> [PK] integer	<b>first_name</b> character varying	<b>last_name</b> character varying	<b>email</b> character varying	<b>gender</b> character varying
1	28	Arlene	Meneghi	ameneghir@ftc.gov	Female
2	30	Averill	Eveque	aevequet@mashable.com	Male
3	33	Ally	Filipovic	afilipovicw@artisteer.com	Female
4	40	Abel	Beeching	abeeching13@europa.eu	Male
5	54	Abigale	Boik	aboik1@forbes.com	Female
6	72	Alexandre	Comerford	acomerford12@webeden.co.uk	Male
7	74	Anette	Mallon	amallon21@sourceforge.net	Female
8	86	Alonso	Hunnawill	ahunnawill2d@e-recht24.de	Male
9	89	Amy	Belhomme	abelhomme2g@tripod.com	Female
10	100	Abbey	Stollman	astollman2f@google.com.br	Male
11	113	Abby	Shone	ashone34@nyu.edu	Female
12	122	Alon	Kivits	akivits3d@parallels.com	Male
13	149	Alexandro	Stubblings	astubbings44@google.de	Male
14	159	Anette	Polding	apolding4e@tinypic.com	Female
15	164	Alvie	Reinhard	areinhard4l@admin.ch	Male