Name: Group 2 (Emily, Kevin, Qianbing)

Assignment 3

```
Sample questions:

-- students with the highest marks in Unit 4
-- students scored between 89 and 100 unit4
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. From student_marks, delete the id column
2. From student_marks, format unit 2 from highest to lowest
3. Only show students who got score of 100 in unit 5

4. Only show students whose scores are over 95 in all units

5. Find the mean unit 2 score of the first 10 students.
6. Show students who scored between 90-93 on unit 3

7. From student, format names in alphabetical order

8. Show only female students
9. Show students with a google email
10. Show students whose phone number has '232' as the first 3 numbers or
4ᵗʰ-6ᵗʰ numbers
```

```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
)
```

Data Output

id [PK] integer	first_name character varying	last_name character varying	email character varying	gender character varying	work_phone character varying	book_preference_hardcopy boolean

```sql
1  copy student(first_name,last_name,email,gender,work_phone,book_preference_hardcopy)
2  from 'C:\Users\emily\Downloads\Everup\Unit 5\HW3_Student_data-2.csv'
```

Data Output

id [PK] integer	first_name character varying	last_name character varying	email character varying	gender character varying	work_phone character varying	book_preference_hardcopy boolean
261	261 Hershel	Marflitt	hmarflitt78@canalblog.com	Male	828-580-5905	true
262	262 Ailene	Rosenbaum	arosenbaum79@smugmug.com	Female	904-681-8119	false
263	263 Radcliffe	Egre	regre7a@aol.com	Male	105-192-4744	false
264	264 Theressa	Kirrens	tkirrens7b@cocolog-nifty.com	Female	514-577-6409	true
265	265 Sergei	Manlow	smanlow7c@imdb.com	Male	324-194-4334	true
266	266 Jocelin	Colthard	jcolthard7d@jiathis.com	Female	578-637-0107	true
267	267 Sammie	McVeigh	smcveigh7e@sitemeter.com	Male	262-942-1129	true
268	268 Louisa	Beteriss	lbeteriss7f@intel.com	Female	217-959-1568	false
269	269 Jessy	Bridgett	jbridgett7g@a8.net	Female	879-821-9278	true
270	270 Jeffy	Ariss	jariss7h@live.com	Male	812-148-7993	false
271	271 Esmaria	Antill	eantill7i@unicef.org	Female	487-660-3579	false
272	272 Marion	Rosenbloom	mrosenbloom7j@tripod.com	Male	913-172-3715	true
273	273 Gwendolin	Gritten	ggritten7k@bbb.org	Female	369-202-5025	true
274	274 Ronny	Phetteplace	rphetteplace7l@php.net	Male	896-828-8543	false
275	275 Griffy	Ollett	gollett7m@theguardian.com	Male	434-437-6842	false
276	276 Nesta	Hanbury-Brown	nhanburybrown7n@house.gov	Female	769-802-4999	true

Query Editor   Query History   Explain   Messages   Notifications   Scratch Pad

```
1  copy student(first_name,last_name,email,gender,work_phone,book_preference_hardcopy)
2  from 'C:\Users\emily\Downloads\Everup\Unit 5\student_data.csv'
3  delimiter ',' CSV header
```

Query Editor   Query History   Explain   Messages   Notifications   Scratch Pad

```
1  DROP TABLE IF EXISTS student_marks;
2  CREATE TABLE student_marks
3  (
4      id serial PRIMARY KEY,
5      student_reg_id integer,
6      student_id integer,
7      unit2 integer,
8      unit3 integer,
9      unit4 integer,
10     unit5 integer
11 );
```

Data Output

id [PK] integer	student_reg_id integer	student_id integer	unit2 integer	unit3 integer	unit4 integer	unit5 integer

```
1  copy student_marks(student_reg_id,student_id,unit2,unit3,unit4,unit5)
2  from 'C:\Users\emily\Downloads\Everup\Unit 5\student_marks.csv'
3  delimiter ',' CSV header
```

Data Output

	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	83	97
16	16	868	16	98	90	91	96

Data Output

	student_reg_id integer	student_id integer	unit4 integer
1	1556	704	100
2	1822	970	100
3	961	109	100
4	1280	428	100
5	900	48	100
6	901	49	100
7	1011	159	100
8	1794	942	100
9	981	129	100
10	1294	442	100
11	1274	422	100
12	1584	732	100
13	1081	229	100
14	1467	615	100
15	1742	890	100
16	1664	812	100

Query Editor   Query History   Explain   Messages   Notifications   Scratch Pad

```sql
1  SELECT student_reg_id, student_id, unit4 FROM student_marks
2  ORDER BY unit4 DESC
```

Data Output

	student_reg_id integer	student_id integer	unit4 integer
1	855	3	99
2	856	4	89
3	858	6	93
4	859	7	97
5	860	8	92
6	862	10	96
7	863	11	97
8	864	12	92
9	865	13	98
10	868	16	91
11	869	17	98
12	871	19	98
13	873	21	92
14	874	22	90
15	877	25	93
16	879	27	94

Query Editor   Query History   Explain   Messages   Notifications   Scratch Pad

```
1  SELECT student_reg_id, student_id, unit4 FROM student_marks
2  WHERE unit4 BETWEEN 89 and 100
```

Data Output

student_reg_id integer	student_id integer	unit2 integer	unit3 integer	unit4 integer	unit5 integer
853	1	88	96	87	92
854	2	86	99	82	95
855	3	86	95	99	95
856	4	98	98	89	100
857	5	100	94	83	95
858	6	97	91	93	88
859	7	92	97	97	98
860	8	86	97	92	88
861	9	89	97	82	97
862	10	96	96	96	90
863	11	85	95	97	99
864	12	92	93	92	93
865	13	98	93	98	90
866	14	100	100	87	100
867	15	85	99	83	97
868	16	98	99	91	96

Query Editor   Query History   Explain   Messages   Notifications   Scratch Pad

```
1  ALTER TABLE student_marks
2  DROP COLUMN ID;
```

Data Output

student_reg_id integer	student_id integer	unit2 integer	unit3 integer	unit4 integer	unit5 integer
1	1202	350	100	99	95	97
2	1045	193	100	90	94	94
3	1509	657	100	90	84	98
4	1191	339	100	96	98	88
5	1720	868	100	96	100	99
6	921	69	100	96	99	95
7	1850	998	100	95	84	90
8	1469	617	100	100	99	89
9	1180	328	100	100	82	94
10	1521	669	100	96	88	91
11	869	17	100	94	98	90
12	1733	881	100	92	94	91
13	1032	180	100	98	88	95
14	1532	680	100	93	85	92
15	1825	973	100	99	83	100
16	1205	452	100	100	96	97

Query Editor   Query History   Explain   Messages   Notifications   Scratch Pad

```
1  SELECT*FROM student_marks
2  ORDER BY unit2 DESC
```

Data Output

	student_reg_id integer 🔒	student_id integer 🔒	unit5 integer 🔒	
67	1650	798	100	
68	1666	814	100	
69	1675	823	100	
70	1727	875	100	
71	1736	884	100	
72	1741	889	100	
73	1754	902	100	
74	1772	920	100	
75	1775	923	100	
76	1776	924	100	
77	1781	929	100	
78	1800	948	100	
79	1806	954	100	
80	1825	973	100	
81	1829	977	100	
82	1840	988	100	

Query Editor   Query History   Explain   Messages   N

```
1  SELECT student_reg_id,student_id,unit5
2  FROM student_marks
3  WHERE unit5=100
```

Data Output

	student_reg_id integer	student_id integer	unit2 integer	unit3 integer	unit4 integer	unit5 integer
2	961	109	96	97	100	100
3	1006	154	99	97	97	98
4	1212	360	96	100	100	98
5	1229	377	98	98	96	100
6	1231	379	100	98	98	96
7	1292	440	97	98	98	99
8	1297	445	98	97	97	100
9	1305	453	100	100	96	97
10	1377	525	99	98	97	100
11	1389	537	97	96	99	96
12	1442	590	98	97	98	98
13	1443	591	99	96	97	100
14	1535	683	97	98	96	96
15	1664	812	97	100	100	97
16	1720	868	100	96	100	99
17	1726	874	98	97	97	98

Query Editor   Query History   Explain   Messages   Notifications   Scratch Pad

```
1  SELECT student_reg_id,student_id,unit2,unit3,unit4,unit5
2  FROM student_marks
3  WHERE unit2>95 AND unit3>95 AND unit4>95 AND unit5>95
```

Data Output

	avg numeric
1	91.8000000000000000

```
1   SELECT AVG(unit2) FROM student_marks WHERE student_id<11
```

Data Output

	student_reg_id 🔒 integer	student_id 🔒 integer	unit3 🔒 integer
73	1478	626	93
74	1416	564	93
75	1136	284	93
76	1375	523	93
77	913	61	93
78	1141	289	93
79	1618	766	93
80	1643	791	92
81	1636	784	92
82	1324	472	92
83	1634	782	92
84	977	125	92
85	1632	780	92
86	1355	503	92
87	1356	504	92
88	1363	511	92

```
1   SELECT student_reg_id,student_id,unit3
2   FROM student_marks
3   WHERE unit3 BETWEEN 90 AND 93
4   ORDER BY unit3 DESC;
```

	id [PK] integer	first_name character varying	last_name character varying	email character varying	gender character varying	work_phone character varying	book_preference_hardcopy boolean
1	100	Abbey	Stollman	astollman2r@google.com.br	Male	865-618-2319	false
2	113	Abby	Shone	ashone34@nyu.edu	Female	975-857-3640	false
3	40	Abel	Beeching	abeeching13@europa.eu	Male	413-526-4804	true
4	54	Abigale	Boik	aboik1h@forbes.com	Female	300-315-7186	true
5	507	Abner	Downes	adownese2@smugmug.com	Male	508-117-5635	true
6	512	Aggie	Antcliffe	aantcliffee7@nps.gov	Female	302-764-1212	true
7	719	Agna	Tappington	atappingtonjy@examiner.com	Female	983-173-7321	false
8	514	Aguistin	Thornley	athornleye9@stumbleupon.com	Male	103-649-0469	true
9	335	Ahmed	Chichgar	achichgar9a@pen.io	Male	387-495-3353	true
10	450	Aida	Ivashnikov	aivashnikovch@oakley.com	Female	322-188-2668	true
11	473	Ailee	Bruckent	abruckentd4@privacy.gov.au	Female	821-757-3151	false
12	262	Ailene	Rosenbaum	arosenbaum79@smugmug.com	Female	904-681-8119	false
13	481	Ailina	Detloff	adetloffdc@xing.com	Female	372-680-5515	false
14	496	Alana	Lathwood	alathwooddr@bloglovin.com	Female	278-285-5437	false
15	579	Alana	Treagus	atreagusg2@twitpic.com	Female	285-522-4390	true
16	493	Alanson	McMurthy	amcmrthyde@odophlocoriki.ru	Male	549-388-1200	true

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```
1  SELECT*FROM student
2  ORDER BY first_name ASC, last_name ASC
```

Data Output

	id [PK] integer	first_name character varying	last_name character varying	email character varying	gender character varying	work_phone character varying	book_preference_hardcopy boolean
461	969	Ingrid	Luney	iluneyqw@themeforest.net	Female	445-948-5615	true
462	973	Junia	De Carlo	jdecarlor0@ft.com	Female	447-317-6804	true
463	974	Blinnie	Caban	bcabanr1@photobucket.com	Female	628-115-5678	false
464	977	Nomi	Shurville	nshurviller4@naver.com	Female	393-229-1884	true
465	978	Minna	Dawdry	mdawdryr5@jugem.jp	Female	285-923-7932	false
466	979	Roz	Burrett	rburrettr6@godaddy.com	Female	520-815-9474	false
467	980	Chandal	Seiler	cseilerr7@privacy.gov.au	Female	909-345-0764	false
468	983	Olympia	Philippon	ophilipponra@wp.com	Female	862-893-2362	true
469	986	Madella	Gear	mgearrd@posterous.com	Female	450-720-3156	true
470	990	Sharona	Letcher	sletcherrh@cnbc.com	Female	657-823-1894	true
471	992	Layne	Beneteau	lbeneteaurj@blog.com	Female	234-787-4858	false
472	993	Cybil	Swainston	cswainstonrk@purevolume.com	Female	254-549-4202	false
473	994	Chryste	Oakland	coaklandrl@wired.com	Female	324-544-8580	false
474	995	Brynn	Starten	bstartenrm@hubpages.com	Female	732-792-2013	false
475	999	Anet	Tilne	atilnerq@bloglovin.com	Female	556-891-1055	true

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```
1  SELECT*FROM student
2  WHERE gender='Female'
```

Data Output

	id [PK] integer	first_name character varying	last_name character varying	email character varying	gender character varying	work_phone character varying
28	560	Sidonia	Kaas	skaastj@google.nl	Female	158-941-7104
29	565	Olenolin	July	ojulyfo@google.co.uk	Male	220-296-5239
30	577	Nevil	Prowse	nprowseg0@google.pl	Male	985-522-5277
31	602	Sven	Conklin	sconklingp@google.com.hk	Male	644-321-3993
32	624	Jarrad	Treat	jtreathb@google.pl	Male	305-797-5455
33	645	Tonya	Boldt	tboldthw@google.cn	Female	334-867-9546
34	682	Margo	Derdes	mderdesix@google.it	Female	414-349-7954
35	730	Marice	Aldersea	malderseak9@google.nl	Female	299-490-5257
36	764	Rhona	Sidey	rsideyl7@google.es	Female	499-195-1178
37	800	Gabriella	Whatmough	gwhatmoughm7@google.fr	Female	724-646-0094
38	819	Allister	Persse	aperssemq@google.fr	Male	207-361-8991
39	822	Georgena	Bolley	gbolleymt@google.co.uk	Female	323-983-1173
40	847	Olympie	Teasdale-Markie	oteasdalemarkieni@google.it	Female	645-230-7995
41	934	Glory	Hallas	ghallaspx@google.it	Female	979-784-1419
42	968	Cirstoforo	Fader	cfaderqv@google.es	Male	324-970-7744

Query Editor　Query History　Explain　Messages　Notifications　Scratch Pad

```
1  SELECT id,first_name,last_name,email,gender,work_phone
2  FROM student
3  WHERE email LIKE '%google%'
```

Data Output

	id [PK] integer	first_name character varying	last_name character varying	email character varying	gender character varying	work_phone character varying	book_preference_hardcopy boolean
1	102	Harriet	Gebbe	hgebbe2t@oaic.gov.au	Female	232-537-7904	true
2	293	Una	Beamson	ubeamson84@ca.gov	Female	232-371-0231	true
3	306	Margette	Wemm	mwemm8h@arizona.edu	Female	232-675-3311	false
4	570	Whittaker	Blencoe	wblencoeft@usa.gov	Male	232-522-3052	true

Query Editor　Query History　Explain　Messages　Notifications　Scratch Pad

```
1  SELECT id,first_name,last_name,email,gender,work_phone, book_preference_hardcopy
2  FROM student
3  WHERE work_phone LIKE '232%'
```