

Project 3, Question 2

- List of SQL scripts that we used for each option
- Proof of Program Running from IDE console output
 - Option 1
 - Option 2
 - Option 3
 - Option 4
 - Option 5
 - Option 6 and Option 0 (quit)

Project 3, Question 2

- List of SQL scripts that we used for each option

- **Option 1:** Get the list of employees whose salary is greater than __ (a number)
 - `SELECT * FROM employee WHERE salary > 5000.0`
- **Option 2:** Add a new car into the table Car
 - `INSERT INTO car VALUES (11, 'Mazda', 'abc999', 'rx-8', 'Yellow', '2020-02-14', 300, 'Compact Car', 8, 'Brand new Compact Car');`
- **Option 3:** Increases the salary by __ % for employees whose salary is less than __ (a number). Then, show modified employee table
 - `UPDATE employee SET salary = salary * 1.5 WHERE salary < 4000.0`
 - `SELECT * FROM employee`
- **Option 4:** Reward __ (a number) points to all members who registered before the date __.
 - `UPDATE member SET points = points + 200 WHERE registration_date < 2020-01-01;`
- **Option 5:** List names of all the customers who do not have a rental in ascending order
 - `SELECT customer.name FROM customer WHERE customer.email NOT IN (SELECT rental.email FROM rental) ORDER BY customer.name;`
- **Option 6:** List all the rental records for customers who are not members
 - `SELECT customer.name, rental.rental_id FROM rental INNER JOIN customer ON rental.email = customer.email WHERE customer.email NOT IN (SELECT member.email FROM member);`

- Proof of Program Running from IDE console output

--Option 1

```
# Congratulation! You have successfully connected to our database
```

```

===== Welcome to use our Vroom application =====
==== Here is a list of options for you ====
* Please enter the corresponding number of the option
-> Option 1: Get the list of employees whose salary is greater than ____ (a number)
-> Option 2: Add a new car into the table Car
-> Option 3: Increases the salary by _% for employees whose salary is less than ____ (a
number). Then, show modified employee table
-> Option 4: Reward ____ (a number) points to all members who registered before the date
____.
-> Option 5: List names of all the customers who do not have a rental in ascending order
-> Option 6: List all the rental records for customers who are not members
-> Option 0: Close the application
=== === === === === === === === ===
1
Option 1 is selected, please enter a salary(eg: 3000):
5000
SELECT * FROM employee WHERE salary > 5000.0
name: Jeff Green
salary: 6750.0
name: Demarcus Cousins
salary: 6750.0
name: JaVale McGee
salary: 7800.0
DONE

```

Screenshot of employee table

	employee_id	phone	name	email	salary	start_date	job_title	dob
1	2	5140000002	Jeff Green	jeff.green@nba.com	6750	2019-06-30	Customer Servi...	1984-11-20
2	5	5140000005	Demarcus Cousi...	demarcus.cousins@nba...	6750	2019-01-30	Customer Servi...	1991-12-23
3	3	5140000003	JaVale McGee	javale.mcgee@nba.com	7800	2019-12-30	Maintenance	1990-12-31
4	6	5140000006	Jimmy Buttler	jimmy.buttler@nba.com	5000	2019-02-10	Maintenance	1986-10-20
5	0	6666666666	Kevin	kevin@gmail.com	3250	1996-01-01	CoffeeBoy	1995-01-01
6	4	5140000004	Anthony Davis	anthony.davis@nba.com	3900	2018-06-30	Maintenance	1988-11-20
7	1	5140000001	Danny Green	danny.green@nba.com	3900	2019-06-30	Customer Servi...	1985-12-31

--Option 2

```

===== Welcome to use our Vroom application =====
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* Please enter the corresponding number of the option
-> Option 1: Get the list of employees whose salary is greater than ____ (a number)
-> Option 2: Add a new car into the table Car
-> Option 3: Increases the salary by _% for employees whose salary is less than ____ (a
number). Then, show modified employee table
-> Option 4: Reward ____ (a number) points to all members who registered before the date
____.
-> Option 5: List names of all the customers who do not have a rental in ascending order
-> Option 6: List all the rental records for customers who are not members
-> Option 0: Close the application
=== === === === === === === === ===

```

```

2
Option 2 is selected
Please enter the registration_num:
11
Please enter the make:
Mazda
Please enter the plate_number:
abc999
Please enter the model:
rx-8
Please enter the color:
Yellow
please enter the purchase_date:
2020-02-14
please enter the milage:
300
please enter the name(eg. Compact Car):
Compact Car
please enter the empolyee_id:
8
please enter the description:
Brand new Compact Car
INSERT INTO car VALUES ( 11, 'Mazda', 'abc999', 'rx-8', 'Yellow', '2020-02-14', 300,
'Compact Car', 8, 'Brand new Compact Car');
DONE

```

Screenshot of car table before option 2

	registration_num	make	plate_number	model	color	purchase_date	milage	name	employee_id	description
1	1	BMW	ABC123	BMW X1	Red	2020-02-20	10000	Intermediate SUV	1	With its responsive engine, sporty handling
2	2	Porsche	ABC456	Porsche Macan	Blue	2020-02-20	5000	Intermediate SUV	2	With snappy acceleration from a range of
3	3	Mercedes-Benz	ABC789	Mercedes-Benz GLE	White	2020-02-20	10000	Intermediate SUV	1	With innovative safety features, a roomy int
4	4	BMW	ABC090	BMW 330	Red	2020-02-20	2000	Intermediate Car	2	The 330 is a fresh face among luxury
5	5	Mercedes-Benz	ABC012	Mercedes-Benz C-A	White	2020-02-20	5000	Full Size Car	1	The A-Class is a fresh face among luxury
6	6	Porsche	ABC000	Porsche Panamera	Silver	2019-05-12	2000	Compact Car	5	The Panamera is a fresh face among luxury
7	7	Toyota	ABC001	Canery	Black	2020-01-15	1000	Economy Car	4	The Canery is a fresh face among luxury
8	8	Ford	ABC002	Predator	Black	2020-02-01	2000	Mini Van	5	The Predator is a fresh face among luxury
9	9	Ford	ABC003	Fox	Blue	2018-12-08	2000	Standard Car	3	The Fox is a fresh face among luxury

Screenshot of car table after option 2

	registration_num	make	plate_number	model	color	purchase_date	milage	name	employee_id	description
1	1	BMW	ABC123	BMW X1	Red	2020-02-20	10000	Intermediate SUV	1	With its responsive engine, sporty handling
2	2	Porsche	ABC456	Porsche Macan	Blue	2020-02-20	5000	Intermediate SUV	2	With snappy acceleration from a range of
3	3	Mercedes-Benz	ABC789	Mercedes-Benz GLE	White	2020-02-20	10000	Intermediate SUV	1	With innovative safety features, a roomy int
4	4	BMW	ABC090	BMW 330	Red	2020-02-20	2000	Intermediate Car	2	The 330 is a fresh face among luxury
5	5	Mercedes-Benz	ABC012	Mercedes-Benz C-A	White	2020-02-20	5000	Full Size Car	1	The A-Class is a fresh face among luxury
6	6	Porsche	ABC000	Porsche Panamera	Silver	2019-05-12	2000	Compact Car	5	The Panamera is a fresh face among luxury
7	7	Toyota	ABC001	Canery	Black	2020-01-15	1000	Economy Car	4	The Canery is a fresh face among luxury
8	8	Ford	ABC002	Predator	Black	2020-02-01	2000	Mini Van	5	The Predator is a fresh face among luxury
9	9	Ford	ABC003	Fox	Blue	2018-12-08	2000	Standard Car	3	The Fox is a fresh face among luxury
10	11	Mazda	abc999	rx-8	Yellow	2020-02-14	300	Compact Car	8	Brand new Compact Car

--Option 3

```

===== Welcome to use our Vroom application =====
===== Here is a list of options for you =====
* Please enter the corresponding number of the option
-> Option 1: Get the list of employees whose salary is greater than ____ (a number)
-> Option 2: Add a new car into the table Car

```

```

-> Option 3: Increases the salary by _% for employees whose salary is less than ____ (a
number). Then, show modified employee table
-> Option 4: Reward ____ (a number) points to all members who registered before the date
____.
-> Option 5: List names of all the customers who do not have a rental in ascending order
-> Option 6: List all the rental records for customers who are not members
-> Option 0: Close the application
=== ===
3
Option 3 is selected
Please enter a double number with range [0, 1]
0.50
Please enter a limit of salary (eg: 3000):
4000
UPDATE employee SET salary = salary * 1.5 WHERE salary < 4000.0
Code: 0  sqlState: 02000
SELECT * FROM employee
name: Jeff Green
salary: 6750.0
name: Demarcus Cousins
salary: 6750.0
name: JaVale McGee
salary: 7800.0
name: Jimmy Buttler
salary: 5000.0
name: Kevin
salary: 4875.0
name: Anthony Davis
salary: 5850.0
name: Danny Green
salary: 5850.0

```

Screenshot of employee table before option 3

	employee_id	phone	name	email	salary	start_date	job_title	dob
1	2	5140000002	Jeff Green	jeff.green@nba.com	6750	2019-06-30	Customer Servi...	1984-11-20
2	5	5140000005	Demarcus Cousi...	demarcus.cousins@nba....	6750	2019-01-30	Customer Servi...	1991-12-23
3	3	5140000003	JaVale McGee	javale.mcgee@nba.com	7800	2019-12-30	Maintenance	1990-12-31
4	6	5140000006	Jimmy Buttler	jimmy.buttler@nba.com	5000	2019-02-10	Maintenance	1986-10-20
5	0	6666666666	Kevin	kevin@gmail.com	3250	1996-01-01	CoffeeBoy	1995-01-01
6	4	5140000004	Anthony Davis	anthony.davis@nba.com	3900	2018-06-30	Maintenance	1988-11-20
7	1	5140000001	Danny Green	danny.green@nba.com	3900	2019-06-30	Customer Servi...	1985-12-31

Screenshot of employee table after option 3

	e_id	phone	name	email	salary	start_date	job_title	dob
1	2	5140000002	Jeff Green	jeff.green@nba.com	6750	2019-06-30	Customer Service	1984-11-20
2	5	5140000005	Demarcus Cousins	demarcus.cousins@nba.com	6750	2019-01-30	Customer Service	1991-12-23
3	3	5140000003	JaVale McGee	javale.mcgee@nba.com	7800	2019-12-30	Maintenance	1990-12-31
4	6	5140000006	Jimmy Buttler	jimmy.buttler@nba.com	5000	2019-02-10	Maintenance	1986-10-20
5	0	6666666666	Kevin	kevin@gmail.com	4875	1996-01-01	CoffeeBoy	1995-01-01
6	4	5140000004	Anthony Davis	anthony.davis@nba.com	5850	2018-06-30	Maintenance	1988-11-20
7	1	5140000001	Danny Green	danny.green@nba.com	5850	2019-06-30	Customer Service	1985-12-31

--Option 4

```

===== Welcome to use our Vroom application =====
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-> Option 2: Add a new car into the table Car
-> Option 3: Increases the salary by _% for employees whose salary is less than ____ (a
number). Then, show modified employee table
-> Option 4: Reward ____ (a number) points to all members who registered before the date
____.
-> Option 5: List names of all the customers who do not have a rental in ascending order
-> Option 6: List all the rental records for customers who are not members
-> Option 0: Close the application
=====

4
Option 4 is selected
Please enter a number (reward points):
200
Please enter a date
2020-01-01
UPDATE member SET points = points + 200 WHERE registration_date < 2020-01-01;

```

Screenshot of member table before option 4

	email	password	registration_date	points
1	muhang.li@mail.mcgill.ca	654321	2020-02-19	1239
2	hao.li@mail.mcgill.ca	123456	2010-02-03	1320
3	lebron.james@nba.com	123456	2010-02-03	1120
4	bozhong.lu@mail.mcgill.ca	123456	2008-01-01	10319

Screenshot of member table after option 4

	email	password	registration_date	points
1	hao.li@mail.mcgill.ca	123456	2010-02-03	1520
2	lebron.james@nba.com	123456	2010-02-03	1320
3	bozhong.lu@mail.mcgill.ca	123456	2008-01-01	10519
4	muhang.li@mail.mcgill.ca	654321	2020-02-19	1239

--Option 5

```

===== Welcome to use our Vroom application =====
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-> Option 3: Increases the salary by _% for employees whose salary is less than ____ (a
number). Then, show modified employee table
-> Option 4: Reward ____ (a number) points to all members who registered before the date
____.

```

```
-> Option 5: List names of all the customers who do not have a rental in ascending order
-> Option 6: List all the rental records for customers who are not members
-> Option 0: Close the application
=== ===
5
Option 5 is selected
SELECT customer.name FROM customer WHERE customer.email NOT IN (SELECT rental.email FROM
rental) ORDER BY customer.name;
name: Ad
name: Aefspu
name: Aepvrth
name: Ahhhc
name: Algos
name: Apc
name: Aqo
name: Arpztiyu
name: Av
name: Az
name: B
name: B
name: Bcor
name: Boksjej
name: C
name: Cacpxy
name: Ce
name: Cgv
name: Cihplofk
name: Cm
name: Cpo
name: Cr
name: Csdbrc
name: Ctx
name: Cvmpg
name: Cxhxb
name: D
name: Dpff
name: Dqoq
name: Drjnnldu
name: Dtr
name: Dun
name: Dwayne Wade
name: E
name: Ej
name: Epocao
name: Epthvqec
name: Etumr
name: Eyvolyo
name: Eywgrjio
name: F
name: Fjeemu
name: Fof
```

name: Fpny
name: Fql
name: Fwiacy
name: Fzixs
name: G
name: G
name: Gcrxjjs
name: Ggse
name: Ghswqh
name: Grsxqha
name: Guhhcpqm
name: Guibv
name: Gvruez
name: Gw
name: Hbtn
name: Hbuezwt
name: Hc
name: Hcc
name: Hfgdfc
name: Hiqix
name: Hjskk
name: I
name: Icn
name: Igom
name: Iitl
name: Is
name: Jcivicr
name: Jctohvc
name: Jctvux
name: Jgvp
name: Jhyzpszo
name: Jmvlyvxq
name: Kik
name: Kjfp
name: Kjiuzqt
name: Kk
name: Kmhbzp
name: Knpekbox
name: Kpugnxx
name: Kpvkaxw
name: Krhijqg
name: Kszq
name: Kuiejaj
name: Kwoforsf
name: Kyzz
name: L
name: La
name: Ldnrq
name: Ldpnnu
name: Lior
name: Ljhcfs

name: Ll
name: Lq
name: Lt
name: Lzew
name: Makrqhp
name: Masoapva
name: Mezptb
name: Mi
name: Mmvkdstj
name: Mpli
name: Ncz
name: Nexquab
name: Nfzp
name: Ng
name: Nsd
name: Nthedq
name: Ntlhdd
name: Nx
name: O
name: Odntsz
name: Owur
name: P
name: Pa
name: Pcgd
name: Pgfyllok
name: Pwfbb
name: Qbwfb
name: Qcigcim
name: Qd
name: Qmbsxki
name: Qpxus
name: Qs
name: R
name: R
name: Re
name: Rgpevwf
name: Rhbyj
name: Rjveamk
name: Rkijkl
name: Rn
name: Rnz
name: Rywlv
name: S
name: Seuzysrp
name: Smvgyxtk
name: Sotwqvfwf
name: Szap
name: Tgeni
name: Tknqpcqg
name: Toipxku
name: Toose


```
name: Tvspymag
name: Txburobp
name: Ufjbetk
name: Uhrjh
name: Uoljjvrg
name: Uqxvrkz
name: Uvvgl1bc
name: Ux
name: Uywcgjfy
name: Vef
name: W
name: Whdnqo
name: Wjqdrxm
name: Wkmijhvf
name: Wm
name: Wqixyyqa
name: Wthz
name: Wufwktoi
name: X
name: X
name: Xaris
name: Xasalw
name: Xebde
name: Xochgid
name: Xoy
name: Xpe
name: Xsau
name: Xvo
name: Xzfcldt
name: Y
name: Ybh
name: Yhjdxxoc
name: Yn
name: Yr
name: Yrxsxdw
name: Ytmkyg
name: Yuyhwkgd
name: Yvf
name: Ywhczhh
name: Z
name: Zj
name: Znn
name: Zokcmk
name: Zpwznddc
name: Zrjulr
name: Zsqjo
name: Zzwkpl
DONE
```

--Option 6 and Option 0 (quit)

```

===== Welcome to use our Vroom application =====
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-> Option 2: Add a new car into the table Car
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number). Then, show modified employee table
-> Option 4: Reward ____ (a number) points to all members who registered before the date
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-> Option 0: Close the application
=====

6
Option 6 is selected
SELECT customer.name, rental.rental_id FROM rental INNER JOIN customer ON rental.email =
customer.email WHERE customer.email NOT IN(SELECT member.email FROM member);
name:  Julia Kafato  rental_id: 4
name:  Julia Kafato  rental_id: 6
DONE
===== Welcome to use our Vroom application =====
===== Here is a list of options for you =====
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-> Option 1: Get the list of employees whose salary is greater than ____ (a number)
-> Option 2: Add a new car into the table Car
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number). Then, show modified employee table
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____.
-> Option 5: List names of all the customers who do not have a rental in ascending order
-> Option 6: List all the rental records for customers who are not members
-> Option 0: Close the application
=====

0
Option 0 is selected, the application will quit.
You have closed the application. Thank you!

Process finished with exit code 0

```