Name: jawad khan

Roll no: p19-0053

Section: 4a

1) Create User:

```
MariaDB [(none)]> use p190053_jawad
Database changed
MariaDB [p190053_jawad]> create user 'jawad'@'localhost' identified by 'deadsoul';
Query OK, 0 rows affected (0.050 sec)
MariaDB [p190053_jawad]> grant select,update on p190053_jawad.employee to 'jawad'@'localhost';
```

2) Grant Priveleges:

2.1: Grant

```
MariaDB [p190053_jawad]> create user 'jawad'@'localhost' identified by 'deadsoul';

MariaDB [p190053_jawad]> grant select,update on p190053_jawad.employee to 'jawad'@'localhost';
```

2.2 View and update

MP_NUM	EMP_TITLE	EMP_LNAME	EMP_FNAME	EMP_DOB	EMP_HIRE_DATE	EMP_AREA_CODE	EMP_PHONE	PARK_CODE
100	Ms	Calderdale	Emma	1972-06-15	1992-03-15	0181	324-9134	FR1001
101	Ms	Ricardo	Marshel	1978-03-19	1996-04-25	0181	324-4472	UK3452
102	Mr	Arshad	Arif	1969-11-14	1990-12-20	7253	675-8993	FR1001
103	Ms	Roberts	Anne	1974-10-16	1994-08-16	0181	898-3456	UK3452
104	Mr	Denver	Enrica	1980-11-08	2001-10-20	7253	504-4434	ZA1342
105	Ms	Namowa	Mirrelle	1990-03-14	2006-11-08	0181	890-3243	FR1001
106	Mrs	Smith	Gemma	1968-02-12	1989-01-05	0181	324-7845	ZA1342

```
riaDB [p200557_yasir]> select * from employee
EMP_NUM | EMP_TITLE | EMP_LNAME
                                             EMP_FNAME | EMP_DOB
                                                                                | EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE | PARK_CODE
                                                                                                                               324-9134
324-4472
                                                                1972-06-15 |
1978-03-19 |
1969-11-14 |
            Ms
Mr
Ms
Mr
Ms
     101
102
                             Ricardo
Arshad
                                                Marshel
Arif
                                                                                  1996-04-25
1990-12-20
                                                                                                         0181
7253
                                                                                                                                                UK3452
                                                                                                                               675-8993
                                                                                                                                                FR1001
                                                                                  1994-08-16
2001-10-20
2006-11-08
                                                                                                                                                UK3452
ZA1342
FR1001
                                                Anne
Enrica
                             Denver
Namowa
                                                                1980-11-08
                                                                                                                               504-4434
                                                                                                                               890-3243
rows in set (0.000 sec)
```

3) revoke permission given in ex. 2

```
]> revoke select,update on p200557_yasir.employee from 'Yasir'@'localhost';
ted (0.381 sec)
]> revoke create on *.* from 'Yasir'@'localhost';
ted (0.029 sec)
```

- 4) Commit, savepoint, rollback:
- 4.1 disable autocommit option

```
MariaDB [(none)]> use p190053_jawad;
Database changed
MariaDB [p190053_jawad]> set autocommit = 0;
Query OK, 0 rows affected (0.000 sec)
MariaDB [p190053_jawad]>
```

4.2 insert and update

```
> insert into employee values(110, 'mr','abbas','Ali','2002-12-21','2022-04-20','0181','543-5555','FR1001');
ed (0.282 sec)
```

```
]> update employee set emp_area_code = "0181" where emp_num= "100";
ed (0.000 sec)
ed: 1 Warnings: 0
```

4.3 make savepoint and rollback to savepoint

```
ery OK, 0 rows affected (0.000 sec)
ariaDB [p200557_yasir]> insert into employee values(112, 'mrr','abbbas','Alii','2012-12-21','2022-04-30','0131','522-5555','FR1001');
uery OK, 1 row affected (0.000 sec)
ariaDB [p200557_yasir]> select * from employee
 EMP_NUM | EMP_TITLE | EMP_LNAME
                                                 EMP FNAME | EMP DOB
                                                                                       | EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE | PARK_CODE |
                                                    Emma
Marshel
Arif
Anne
Enrica
Mirrelle
                                                                      1972-06-15
1978-03-19
1969-11-14
1974-10-16
      100
101
                                                                                         1992-03-15
1996-04-25
                                                                                                                 0181
0181
                                                                                                                                         324-9134
324-4472
               Ms
Ms
                                 Ricardo
                                                                                                                                                           UK3452
      102
103
               Mr
Ms
                                Arshad
Roberts
                                                                                         1990-12-20
1994-08-16
                                                                                                                 7253
0181
                                                                                                                                        675-8993
898-3456
                                                                                                                                                          FR1001
UK3452
      104
105
               Mr
Ms
                                 Denver
Namowa
                                                                      1980-11-08
1990-03-14
                                                                                         2001-10-20
2006-11-08
                                                                                                                 7253
0181
                                                                                                                                         504-4434
890-3243
                                                                                                                                                          ZA1342
FR1001
      106
110
                                                   Gemma
Ali
                                                                      1968-02-12
                                                                                                                 0181
0181
                                                                                                                                         324-7845
543-5555
                                                                                                                                                          ZA1342
FR1001
               mr
                                 abbas
                                                                      2002-12-21
                                                                                         2022-04-20
 riaDB [p200557_yasir]> rollback to save1;
ery OK, 0 rows affected (0.000 sec)
riaDB [p200557_yasir]> select * from employee;
 EMP_NUM | EMP_TITLE | EMP_LNAME | EMP_FNAME | EMP_DOB
                                                                                      I EMP HIRE DATE | EMP AREA CODE | EMP PHONE | PARK CODE
                                                                                                                                        324-9134
324-4472
675-8993
898-3456
564-4434
890-3243
                                                                      1972-06-15
                                 Calderdale
                                                    Emma
                                                                                         1992-03-15
                                                                                                                 0181
                                                                                                                                                           FR1001
                                                   Marshel
Arif
Anne
Enrica
Mirrelle
                                                                      1972-06-15
1978-03-19
1969-11-14
1974-10-16
                                                                                                                                                          UK3452
FR1001
UK3452
       101
                                                                                                                 0181
               Mr
Ms
Mr
Ms
                                                                                         1990-12-20
1994-08-16
                                                                                                                 7253
0181
      102
103
                                 Arshad
Roberts
                                                                      1980-11-08
1990-03-14
1968-02-12
                                                                                                                                                          ZA1342
FR1001
       104
105
                                 Denver
Namowa
                                                                                         2001-10-20
2006-11-08
                                                                                                                 7253
0181
                                 Smith
                                                                                                                 0181
0181
                                                                                                                                         324-7845
543-5555
                                                                                                                                                           ZA1342
FR1001
       106
               Hrs
                                                    Gemma
                                                                                         1989-01-05
                                 abbas
    ws in set (0.000 sec)
```

4.4 commit and rollback

```
miaDB [p200557_yasir]> insert into
Jery OK, 1 row affected (0.000 sec)
lariaDB [p200557_yasir]> commit;
luery OK, 0 rows affected (0.039 sec)
tariaDB [p200557_yasir]> insert into employee values(115, 'mr','farhan','Alii','2012-12-21','2022-04-30','0131','522-5325','FR1001');
Query OK, 1 row affected (0.002 sec)
ariaDB [p200557_yasir]> select * from employee;
 EMP_NUM | EMP_TITLE | EMP_LNAME | EMP_FNAME | EMP_DOB
                                                                                         EMP_HIRE_DATE | EMP_AREA_CODE | EMP_PHONE
                                                                                                                                                         PARK_CODE
                                                                                                                                          324-9134
                                                                                                                                                            FR1001
                                  Calderdale
                                                                       1972-06-15
                                                                                          1992-03-15
                                                                                                                  0181
       101
102
103
104
105
106
110
               Ms
Mr
                                 Ricardo
Arshad
                                                     Marshel
Arif
                                                                       1978-03-19
1969-11-14
                                                                                          1996-04-25
1990-12-20
                                                                                                                  0181
7253
                                                                                                                                          324-4472
675-8993
                                                                                                                                                            UK3452
FR1001
                                                                                          1994-08-16
2001-10-20
2006-11-08
1989-01-05
                                  Roberts
                                                     Anne
Enrica
                                                                                                                                          898-3456
504-4434
                                                                                                                                                           UK3452
ZA1342
                                 Denver
Namowa
Smith
                                                                       1980-11-08
1990-03-14
                                                                                                                  7253
0181
                                                                                                                                          890-3243
324-7845
                                                                                                                                                           FR1001
ZA1342
                                                     Gemma
                                                                       1968-02-12
                                                                                                                  0181
                                                                                                                                                            FR1001
FR1001
FR1001
                                  abbas
                                                                       2002-12-21
                                                                                          2022-04-20
                                  qalanadar
farhan
                                                     Alii
Alii
                                                                                          2022-04-30 2022-04-30
                                                                                                                  0131
0131
                                                                       2012-12-21
                                                                       2012-12-21
                                                                                                                                          522-5325
 rows in set (0.000 sec)
```

HariaDB [p200557_yasir]> rollback -> ; Query OK, 0 rows affected (0.040 sec) HariaDB [p200557_yasir]> select * from employee;

EMP_NUM EMP_TITLE EMP	IP_LNAME EMP_FNAME	EMP_DOB	EMP_HIRE_DATE	EMP_AREA_CODE	EMP_PHONE	PARK_CODE
101 Ms Rid 102 Mr Ars 103 Ms Rol 104 Mr Der 105 Ms Nar 106 Mrs Smi 110 mr abl	olderdale Emma Loardo Marshel Ishad Arif Joherts Anne Inver Enrica Import Emma Inth Gemma Inth Johan Inth Joha	1972-06-15 1978-03-19 1969-11-14 1974-10-16 1980-11-08 1990-03-14 1968-02-12 2002-12-21 2012-12-21	1992-03-15 1996-04-25 1990-12-20 1994-08-16 2001-10-20 2006-11-08 1989-01-05 2022-04-20 2022-04-30	0181 0181 7253 0181 7253 0181 0181 0181 0181	324-9134 324-4472 675-8993 898-3456 584-4434 890-3243 324-7845 543-5555 522-5555	FR1001 UK3452 FR1001 UK3452 FR1001 UK3452 FR1001 ZA1342 FR1001 FR1001 FR1001 FR1001 UK3452 FR1001 FR1

9 rows in set (0.000 sec)