

Assignment - 21

Grant and Revoke

1) Give Amit the right to change the ratings of the customers.

```
root>use classwork;
Database changed
root>grant update(Rating) ON classwork.CUSTOMERS to Amit@localhost;
Query OK, 0 rows affected (0.03 sec)
```

2) Give Manoj the right to give other users the right to query the Orders table.

```
root>grant all on sp.orders to Manoj@localhost with grant option;
Query OK, 0 rows affected (0.01 sec)
```

3) Take the INSERT privilege on Salespeople away from Ajita.

```
root>Create USER Ajita@localhost IDENTIFIED BY 'NehA@123'
-> ;
Query OK, 0 rows affected (0.04 sec)
```

```
root>GRANT ALL PRIVILEGES ON *.* To Ajita@localhost;
Query OK, 0 rows affected (0.01 sec)
```

```
root>FLUSH PRIVILEGES;
Query OK, 0 rows affected (0.01 sec)
```

```
root>Grant all privileges on classwork.SALESPEOPLE to Ajita@localhost;
Query OK, 0 rows affected (0.00 sec)
```

```
root>revoke insert on classwork.SALESPEOPLE from 'Ajita'@'localhost';
Query OK, 0 rows affected (0.00 sec)
```

```
root>CREATE VIEW Insert_Update_Rating As SELECT * FROM CUSTOMERS WHERE
```

4) Grant Abhijeet the right to insert or update the Customers table while keeping her possible rating values in the range of 100 to 500.

```

root>CREATE VIEW Insert_Update_Rating As SELECT * FROM CUSTOMERS WHERE Rating
-> BETWEEN 100 AND 500 WITH CHECK OPTION;
Query OK, 0 rows affected (0.02 sec)

root>GRANT INSERT, UPDATE on Insert_Update_Rating To 'Abhijeet'@'localhost';
Query OK, 0 rows affected (0.01 sec)

root>select * from CUSTOMERS;
+-----+-----+-----+-----+-----+
| Cnum | Cname   | City    | Rating | Snum |
+-----+-----+-----+-----+-----+
| 2001 | Hoffman | London  | 100    | 1001 |
| 2002 | Giovanni | Rome    | 300    | 1003 |
| 2003 | Liu     | SanJose | 200    | 1004 |
| 2004 | Grass   | Berlin  | 300    | 1004 |
| 2008 | Cesneros | SanJose | 300    | 1007 |
| 2007 | Pereira | Rome    | 200    | 1004 |
+-----+-----+-----+-----+-----+

```

5) Allow Vikram to query the Customers table, but restrict his access to those customers whose rating is the lowest.

```

root>Create View Restrict_Min_Rating As Select * FROM CUSTOMERS
-> where Rating >(SELECT MIN(Rating) FROM CUSTOMERS);
Query OK, 0 rows affected (0.01 sec)

root>GRANT SELECT ON classwork.Restrict_Min_Rating To 'Vikram'@'localhost';
Query OK, 0 rows affected (0.01 sec)

root>select * from Restrict_Min_Rating;
+-----+-----+-----+-----+-----+
| Cnum | Cname   | City    | Rating | Snum |
+-----+-----+-----+-----+-----+
| 2002 | Giovanni | Rome    | 300    | 1003 |
| 2003 | Liu     | SanJose | 200    | 1004 |
| 2004 | Grass   | Berlin  | 300    | 1004 |
| 2008 | Cesneros | SanJose | 300    | 1007 |
| 2007 | Pereira | Rome    | 200    | 1004 |
+-----+-----+-----+-----+-----+

```