

Assignment - 21
Grant and Revoke.

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

```
root>grant update on sales.customers to amit@localhost;  
Query OK, 0 rows affected (0.01 sec)
```

```
root>exit;  
Bye
```

```
W1_Minal_93084>select * from customers;  
+-----+-----+-----+-----+-----+  
| Cnum | Cname   | City    | Rating | Snum |  
+-----+-----+-----+-----+-----+  
| 2001 | Hoffman | London  | 100    | 1001 |  
| 2002 | Giovanni | Rome    | 300    | 1003 |  
| 2003 | Liu      | San Jose | 200    | 1004 |  
| 2004 | Grass    | Berlin  | 300    | 1004 |  
| 2006 | Clemens  | London  | 100    | 1001 |  
| 2007 | Pereira  | Rome    | 200    | 1004 |  
| 2008 | Cisneros | San Jose | 300    | 1007 |  
+-----+-----+-----+-----+-----+  
7 rows in set (0.00 sec)
```

```
amit>use sales;  
Database changed  
amit>update customers set rating = 500 where cnum = 2004;  
Query OK, 1 row affected (0.03 sec)  
Rows matched: 1  Changed: 1  Warnings: 0
```

```
+-----+-----+-----+-----+-----+  
| Cnum | Cname   | City    | rating | Snum |  
+-----+-----+-----+-----+-----+  
| 2001 | Hoffmain | London  | 100    | 1001 |  
| 2002 | Glovanni | Rome    | 300    | 1003 |  
| 2003 | Liu      | San Jose | 200    | 1004 |  
| 2004 | Grass    | Berlin  | 500    | 1004 |  
| 2007 | Pereira  | Rome    | 200    | 1004 |  
| 2008 | Cisneros | San Jose | 300    | 1007 |  
+-----+-----+-----+-----+-----+  
6 rows in set (0.01 sec)
```

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

```
root>use sales;
Database changed
root>grant select on sales.orders to 'manoj'@'localhost';
Query OK, 0 rows affected (0.01 sec)

root>exit;
Bye
```

```
manoj>select * from orders;
```

Onum	Amt	Odate	Cnum	Snum	prev
1002	234.22	NULL	1004	NULL	NULL
3001	18.69	1990-03-10	2008	1007	NULL
3002	1900.10	1990-03-10	2007	1004	NULL
3003	767.19	1990-03-10	2001	1001	NULL
3005	5160.45	1990-03-10	2003	1002	NULL
3006	1098.16	1990-03-10	2008	1007	NULL
3007	75.75	1990-04-10	2004	1002	NULL
3008	4723.00	1990-05-10	2006	1001	NULL
3009	1713.23	1990-04-10	2002	1003	NULL
3010	1309.95	1990-06-10	2004	1002	NULL
3011	9891.88	1990-06-10	2006	1001	NULL

11 rows in set (0.01 sec)

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

```
root>grant insert on sales.salespeople to 'ajita'@'localhost';
Query OK, 0 rows affected (0.01 sec)

root>revoke insert on sales.salespeople from 'ajita'@'localhost';
Query OK, 0 rows affected (0.02 sec)
```

- 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>use sales;
Database changed
root>grant insert,update on sales.customers to 'abhijeet'@'localhost';
Query OK, 0 rows affected (0.01 sec)
```

```
root>use sales;
Database changed
root>grant alter on sales.customers to 'abhijeet'@'localhost';
Query OK, 0 rows affected (0.03 sec)
```

```
abhijeet>alter table sales.customers
-> add constraint rating_range check (rating between 100 and 500);
Query OK, 6 rows affected (0.20 sec)
Records: 6 Duplicates: 0 Warnings: 0
```

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

```
root>use sales;
Database changed
root>create or replace view LowestRatedCustomers as
-> select * from sales.customers
-> where rating = (select min(rating) from sales.customers);
Query OK, 0 rows affected (0.04 sec)
```

```
root>grant select on LowestRatedCustomers to 'vikram'@'localhost';
Query OK, 0 rows affected (0.02 sec)
```

```
root>
```