

Assignment – 19  
Views.

- 1) Create a view that shows all of the customers who have the highest ratings.

```
W1_Minal_93084>create view show_customers as
-> select cname from customers where rating = (select max(rating) from customers);
Query OK, 0 rows affected (0.01 sec)

W1_Minal_93084>select * from show_cutomers;
ERROR 1146 (42S02): Table 'assignment1.show_cutomers' doesn't exist
W1_Minal_93084>select * from show_customers;
+-----+
| cname |
+-----+
| Grass |
| Cisneros |
+-----+
2 rows in set (0.01 sec)

W1_Minal_93084>select * from customers;
+-----+-----+-----+-----+-----+
| Cnum | Cname | City | Rating | Snum |
+-----+-----+-----+-----+-----+
| 2001 | Hoffman | London | 100 | 1001 |
| 2002 | Giovanni | Rome | 200 | 1003 |
| 2003 | Liu | San Jose | 200 | 1002 |
| 2004 | Grass | Berlin | 300 | 1002 |
| 2006 | Clemens | London | 100 | 1001 |
| 2007 | Pereira | Rome | 100 | 1004 |
| 2008 | Cisneros | San Jose | 300 | 1007 |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

W1_Minal_93084>desc show_customers;
+-----+-----+-----+-----+-----+
| Field | Type | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| cname | varchar(10) | YES | | NULL | |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

2) Create a view that shows the number of salespeople in each city.

```
W1_Minal_93084>create view show_number_Salespeople as
-> select city,count(city) from salespeople
-> group by city;
Query OK, 0 rows affected (0.01 sec)
```

```
W1_Minal_93084>select * from show_number_salespeople;
```

city	count(city)
London	2
San Jose	1
New York	1
Barcelona	1

4 rows in set (0.01 sec)

```
W1_Minal_93084>select * from salespeople;
```

Snum	Sname	City	Comm
1001	Peel	London	0.1728
1002	Serres	San Jose	0.1872
1003	Axelrod	New York	0.12
1004	Motika	London	0.132
1007	Rifkin	Barcelona	0.18

5 rows in set (0.01 sec)

```
W1_Minal_93084>desc show_number_salespeople;
```

Field	Type	Null	Key	Default	Extra
city	varchar(10)	YES		NULL	
count(city)	bigint	NO		0	

2 rows in set (0.00 sec)

- 3) Create a view that shows the average and total orders for each salesperson after his or her name. Assume all names are unique.

```
W1_Minal_93084>create view show_Avg_total_salespeople as
-> select sname,avg(onum),count(onum) from salespeople
-> join orders using(snum)
-> group by sname;
```

Query OK, 0 rows affected (0.01 sec)

```
W1_Minal_93084>select * from show_avg_total_salespeople;
```

sname	avg(onum)	count(onum)
Peel	3007.3333	3
Serres	3007.3333	3
Axelrod	3009.0000	1
Motika	3002.0000	1
Rifkin	3003.5000	2

5 rows in set (0.01 sec)

```
W1_Minal_93084>table salespeople;
```

Snum	Sname	City	Comm
1001	Peel	London	0.1728
1002	Serres	San Jose	0.1872
1003	Axelrod	New York	0.12
1004	Motika	London	0.132
1007	Rifkin	Barcelona	0.18

5 rows in set (0.00 sec)

```
W1_Minal_93084>desc show_avg_total_salespeople;
```

Field	Type	Null	Key	Default	Extra
sname	varchar(10)	YES		NULL	
avg(onum)	decimal(14,4)	YES		NULL	
count(onum)	bigint	NO		0	

3 rows in set (0.00 sec)

- 4) Create a view that shows each salesperson with multiple customers.

```
W1_Minal_93084>create view show_salespeople_customers as
-> select cname,sname from salespeople
-> join customers using(snum);
Query OK, 0 rows affected (0.01 sec)
```

```
W1_Minal_93084>select * from show_salespeople_customers;
```

cname	sname
Hoffman	Peel
Clemens	Peel
Liu	Serres
Grass	Serres
Giovanni	Axelrod
Pereira	Motika
Cisneros	Rifkin

7 rows in set (0.00 sec)

```
W1_Minal_93084>desc show_salespeople_Customers;
```

Field	Type	Null	Key	Default	Extra
cname	varchar(10)	YES		NULL	
sname	varchar(10)	YES		NULL	

2 rows in set (0.00 sec)

