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Assignment – 19

Views.

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

ANS:

KD4-89208-Ashish>create view highrating as

-> select * from customers

-> where rating = (select max(rating) from customers);

Query OK, 0 rows affected (0.03 sec)

KD4-89208-Ashish>select * from highrating;

```
KD4-89208-Ashish>create view highrating as
-> select * from customers
-> where rating = (select max(rating) from customers);
Query OK, 0 rows affected (0.03 sec)
```

```
KD4-89208-Ashish>select * from highrating;
```

Cnum	Cname	City	Rating	Snum
2002	Giovanni	Rome	300	1003
2004	Grass	Berlin	300	1002
2008	Cisneros	San Jose	300	1007

3 rows in set (0.02 sec)

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

ANS:

KD4-89208-Ashish>create view salespeopleincity as

-> select city, count(*) as salespeople_count

-> from salespeople group by city;

Query OK, 0 rows affected (0.03 sec)

KD4-89208-Ashish>select * from salespeopleincity;

```
KD4-89208-Ashish>create view salespeopleincity as
-> select city, count(*) as salespeople_count
-> from salespeople group by city;
Query OK, 0 rows affected (0.03 sec)
```

```
KD4-89208-Ashish>select * from salespeopleincity;
+-----+-----+
| city      | salespeople_count |
+-----+-----+
| London    | 2                 |
| San Jose  | 2                 |
| Barcelona | 1                 |
| New York  | 1                 |
+-----+-----+
4 rows in set (0.02 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.

ANS:

```
KD4-89208-Ashish>create view salespersonorders as
```

```
-> select sname, avg(amt) as avg_order, sum(amt) as total_order
```

```
-> from orders o join salespeople s on o.snum = s.snum group by sname;
```

ERROR 1050 (42S01): Table 'salespersonorders' already exists

```
KD4-89208-Ashish>select* from salespersonorders;
```

```
KD4-89208-Ashish>create view salespersonorders as
-> select sname, avg(amt) as avg_order, sum(amt) as total_order
-> from orders o join salespeople s on o.snum = s.snum group by sname;
ERROR 1050 (42S01): Table 'salespersonorders' already exists
KD4-89208-Ashish>select* from salespersonorders;
+-----+-----+-----+
| sname  | avg_order | total_order |
+-----+-----+-----+
| Peel   | 5127.356628 | 15382.07 |
| Serres | 2182.050049 | 6546.15 |
| Motika | 1900.099976 | 1900.10 |
| Rifkin | 558.425017 | 1116.85 |
| Axelrod | 1713.229980 | 1713.23 |
+-----+-----+-----+
5 rows in set (0.01 sec)
```

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

ANS:

KD4-89208-Ashish>create view salespersonmulticast as

-> select

-> s.snum,

-> s.sname,

-> s.city as salesperson_city,

-> s.comm,

-> c.cnum,

-> c.cname

-> from salespeople s join customers c on s.snum = c.snum;

```
KD4-89208-Ashish>create view salespersonmulticast as
-> select
-> s.snum,
-> s.sname,
-> s.city as salesperson_city,
-> s.comm,
-> c.cnum,
-> c.cname
-> from salespeople s join customers c on s.snum = c.snum;
Query OK, 0 rows affected (0.02 sec)
```

```
KD4-89208-Ashish>select* from salespersonmulticast;
ERROR 1146 (42S02): Table 'sunbeam.salespersonmulticast' doesn't exist
KD4-89208-Ashish>select* from salespersonmulticast;
```

snum	sname	salesperson_city	comm	cnum	cname
1001	Peel	London	0.14	2001	Hoffman
1003	Axelrod	New York	0.12	2002	Giovanni
1002	Serres	San Jose	0.16	2003	Liu
1002	Serres	San Jose	0.16	2004	Grass
1002	Serres	San Jose	0.16	2007	Pereira
1007	Rifkin	Barcelona	0.18	2008	Cisneros

6 rows in set (0.02 sec)

Query OK, 0 rows affected (0.02 sec)

KD4-89208-Ashish>select* from salespersonmulticast;

ERROR 1146 (42S02): Table 'sunbeam.salespersonmulticast' doesn't exist

KD4-89208-Ashish>select* from salespersonmulticast;