

ASSIGNMENT 5

Relational and Logical Operators

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QUESTION 1 Write a query that will give you all orders for more than Rs. 1,000

```
KD1-86691-Harsh@>select * from orders where amt > 1000;
+-----+-----+-----+-----+-----+
| onum | amt   | odate   | cnum | snum |
+-----+-----+-----+-----+-----+
| 3002 | 1900.10 | 1990-10-03 | 2007 | 1004 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3006 | 1098.16 | 1990-10-03 | 2008 | 1007 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3008 | 4723.00 | 1990-10-04 | 2006 | 1001 |
| 3011 | 9891.88 | 1990-10-04 | 2006 | 1001 |
+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)
```

QUESTION 2 Write a query that will give you the names and cities of all salespeople in London with a commission above .10

```
KD1-86691-Harsh@>select sname,city from salespeople where comm > .10 and city = 'London';
+-----+-----+
| sname | city |
+-----+-----+
| Peel  | London |
| Motika | London |
+-----+-----+
2 rows in set (0.00 sec)
```

QUESTION 3 Write a query on the Customers table whose output will exclude all customers with a rating <= 100, unless they are located in Rome

```
KD1-86691-Harsh@>select * from customers where rating <= 100 or city = 'Rome';
+-----+-----+-----+-----+-----+
| cnum | cname   | city   | rating | snum |
+-----+-----+-----+-----+-----+
| 2001 | Hoffman | London | 100    | 1001 |
| 2002 | Giovanni | Rome   | 200    | 1003 |
| 2006 | Clemens | London | 100    | 1001 |
| 2007 | Pereira | Rome   | 100    | 1004 |
+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

```
KD1-86691-Harsh@>select * from customers where rating >100 and city != 'Rome';
```

cnum	cname	city	rating	snum
2003	Liu	San Jose	200	1002
2004	Grass	Berlin	300	1002
2008	Cisneros	San Jose	300	1007

```
3 rows in set (0.00 sec)
```

Question 4

```
KD1-86691-Harsh@>select * from orders
-> where(amt < 1000 or
-> NOT(odate = '1990-10-03' and cnum > 2003));
```

onum	amt	odate	cnum	snum
3001	18.69	1990-10-03	2008	1007
3003	767.19	1990-10-03	2001	1001
3005	5160.45	1990-10-03	2003	1002
3009	1713.23	1990-10-04	2002	1003
3007	75.75	1990-10-04	2004	1002
3008	4723.00	1990-10-04	2006	1001
3010	309.95	1990-10-04	2004	1002
3011	9891.88	1990-10-04	2006	1001

```
8 rows in set (0.00 sec)
```

Question 5

```
KD1-86691-Harsh@>select * from orders
-> where NOT((odate = '1990-10-03' OR snum > 1006) AND amt >= 1500);
```

onum	amt	odate	cnum	snum
3001	18.69	1990-10-03	2008	1007
3003	767.19	1990-10-03	2001	1001
3006	1098.16	1990-10-03	2008	1007
3009	1713.23	1990-10-04	2002	1003
3007	75.75	1990-10-04	2004	1002
3008	4723.00	1990-10-04	2006	1001
3010	309.95	1990-10-04	2004	1002
3011	9891.88	1990-10-04	2006	1001

```
8 rows in set (0.00 sec)
```

QUESTION 6 What is a simpler way to write this query? Select snum, sname, city, comm From Salespeople where (comm > .12 OR comm <.14);

```
KD1-86691-Harsh@>select * from salespeople where (comm > .12 or comm < .14);
```

```
+-----+-----+-----+-----+
| snum | sname  | city   | comm |
+-----+-----+-----+-----+
| 1001 | Peel   | London | 0.12 |
| 1002 | Serres | San Jose | 0.13 |
| 1004 | Motika | London | 0.11 |
| 1007 | Rifkin | Barcelona | 0.15 |
| 1003 | Axelrod | New York | 0.10 |
+-----+-----+-----+-----+
5 rows in set (0.00 sec)
```