- 1 Assignment –5 Relational and Logical Operators.
 - 1) Write a query that will give you all orders for more than Rs. 1,000

KD2_86715_harshad@>select * from orders;							
+ Onum	 Amt	 Odate	+ Cnum	+ Snum			
3001 3003 3002 3005 3006 3009 3007 3008 3010	18.69 767.19 1900.10 5160.45 1098.16 1713.23 75.75 4723.00 1309.95	1990-10-03 1990-10-03 1990-10-03 1990-10-03 1990-10-03 1990-10-04 1990-10-04 1990-10-05 1990-10-06	2008 2001 2007 2003 2008 2008 2002 2004 2006	1007 1001 1004 1002 1007 1003 1002 1001 1002			
3011 9891.88 1990-10-06 2006 1001 ++ 10 rows in set (0.00 sec) KD2_86715_harshad@>select * from orders -> where Amt > 1000;							
+ Onum	+ Amt	 Odate	 Cnum	+ Snum			
3002 3005 3006 3009 3008 3010 3011	1900.10 5160.45 1098.16 1713.23 4723.00 1309.95 9891.88	1990-10-03 1990-10-03 1990-10-03 1990-10-04 1990-10-05 1990-10-06	2007 2003 2008 2002 2002 2006 2004	1004 1002 1007 1003 1001 1002 1001			
7 rows in set (0.00 sec)							

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

```
KD2_86715_harshad@>select * from salespeople;
 Snum
        Sname
                   City
                                Comm
                                0.12
 1001
         Peel
                   London
                   San Jose
 1002
         Serres
                                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)
KD2_86715_harshad@>select Sname, City from salespeople
    -> where City = 'London' and Comm > 0.10;
          City
  Sname
  Peel
           London
 Motika
           London
2 rows in set (0.00 sec)
```

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

KD2_86715_harshad@>select * from customers;								
Cnum Cname	City	Rating	Snum					
2004 Grass 2006 Clemens	London Rome San Jose Berlin London San Jose Rome	100 200 200 300 100 300 100	1001 1003 1002 1002 1001 1007 1004					
7 rows in set (0.02 sec) KD2_86715_harshad@>select * from customers -> where City = 'Rome' and rating > 100;								
Cnum Cname	City R	ating Snu	rm					
2002 Giovanni	Rome	200 100	93					
1 row in set (0.00 sec)								

4) What will be the output from the following query?

Select * from Orders where (amt < 1000 OR NOT (odate = '1990-10-03' AND cnum > 2003));

```
KD2_86715_harshad@>select * from orders;
 Onum
         Amt
                    0date
                                   Cnum
                                           Snum
  3001
            18.69
                     1990-10-03
                                   2008
                                           1007
           767.19
                     1990-10-03
  3003
                                   2001
                                           1001
  3002
          1900.10
                     1990-10-03
                                   2007
                                           1004
         5160.45
1098.16
  3005
                     1990-10-03
                                   2003
                                           1002
  3006
                     1990-10-03
                                   2008
                                           1007
                     1990-10-04
  3009
          1713.23
                                   2002
                                           1003
  3007
            75.75
                     1990-10-04
                                   2004
                                           1002
                    1990-10-05
1990-10-06
  3008
         4723.00
                                   2006
                                           1001
          1309.95
  3010
                                   2004
                                           1002
  3011
         9891.88
                     1990-10-06
                                   2006
                                           1001
10 rows in set (0.00 sec)
KD2_86715_harshad@>select * from orders
    -> where(Amt < 1000 or not(Odate = '1990-10-03' and Cnum > 2003));
 Onum
                    Odate
         Amt
                                   Cnum
                                           Snum
          18.69
767.19
  3001
                     1990-10-03
                                   2008
                                           1007
                     1990-10-03
  3003
                                   2001
                                           1001
  3005
          5160.45
                     1990-10-03
                                           1002
                                   2003
                                   2002
  3009
          1713.23
                     1990-10-04
                                           1003
         75.75
4723.00
  3007
                     1990-10-04
                                   2004
                                           1002
                     1990-10-05
  3008
                                   2006
                                           1001
  3010
          1309.95
                     1990-10-06
                                   2004
                                           1002
         9891.88
                     1990-10-06
                                   2006
                                           1001
  3011
```

5) What will be the output of the following query? Select * from Orders where NOT ((odate = '1990-10-03' OR snum >1006) AND amt >= 1500);

```
KD2_86715_harshad@>select * from orders;
                         0date
            18.69
767.19
1900.10
                         1990-10-03
1990-10-03
   3001
                                            2008
                                                     1007
   3003
                                           2001
                                                     1001
   3002
                          1990-10-03
                                           2007
                                                     1004
                         1990-10-03
1990-10-03
   3005
            5160.45
                                           2003
                                                     1002
                                                     1007
  3006
            1098.16
                                           2008
                         1990-10-04
1990-10-04
1990-10-04
            1713.23
75.75
   3009
                                           2002
                                                     1003
   3007
                                           2004
                                                     1002
                         1990-10-05
1990-10-06
            4723.00
   3008
                                           2006
                                                     1001
   3010
            1309.95
                                           2004
                                                     1002
            9891.88
                         1990-10-06
                                           2006
  3011
                                                     1001
10 rows in set (0.00 sec)
KD2_86715_harshad@>select * from orders
   -> where not ((Odate = '1990-10-03' or Snum > 1006) and amt >= 1500);
  Onum
                                           Cnum
                                                     Snum
            18.69
767.19
1098.16
                         1990-10-03
1990-10-03
  3001
                                           2008
                                                     1007
   3003
                                           2001
                                                     1001
                          1990-10-03
                                                     1007
   3006
                                           2008
   3009
                          1990-10-04
                                           2002
                                                     1003
                         1990-10-04
1990-10-05
1990-10-06
  3007
              75.75
                                           2004
                                                     1002
   3008
            4723.00
                                           2006
                                                     1001
   3010
            1309.95
                                           2004
                                                     1002
            9891.88
                         1990-10-06
                                           2006
```

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

```
KD2_86715_harshad@>select * from salespeople
    -> where comm > .12 or comm < .14;
  Snum
         Sname
                    City
                                 Comm
  1001
         Peel
                    London
                                 0.12
  1002
                    San Jose
                                 0.13
         Serres
  1004
                    London
                                 0.11
         Motika
  1007
         Rifkin
                    Barcelona
                                 0.15
  1003
         Axelrod
                    New York
                                 0.10
5 rows in set (0.00 sec)
KD2_86715_harshad@>select snum, sname,
                                         city, comm from salespeople
    -> where comm > .12 or comm < .14;</p>
         sname
                    city
                                 comm
  snum
  1001
         Peel
                    London
                                 0.12
  1002
         Serres
                    San Jose
                                 0.13
  1004
         Motika
                    London
                                 0.11
                                 0.15
  1007
         Rifkin
                    Barcelona
  1003
         Axelrod
                    New York
                                 0.10
 rows in set (0.00 sec)
```