Assignment – 5 Relational and Logical Operators.

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

W2_93085	W2_93085_Tejal select*from orders; +					
Onum	Amt	0date	Cnum	Snum		
+	18.69 767.19 1900.10 5160.45 1098.16 1713.23 75.75 4723.00 1309.95 9891.88	1990-10-03 1990-10-03 1990-10-03 1990-10-03 1990-10-04 1990-10-04 1990-10-05 1990-10-06 1990-10-06	2008 2001 2007 2003 2008 2002 2004 2004 2006	1007 1001 1004 1002 1007 1003 1002 1001 1002		
	5_Tejal sel vhere amt>1 	.ect*from ord: .000; 	ers 	·		
Onum	Amt	Odate	Cnum	Snum		
3002 3005 3006 3009 3008 3010	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 2006 2004 2006	1004 1002 1007 1003 1001 1002 1001		
7 rows i	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.

```
W2_93085_Tejal select *from salespeople;
  Snum
         Sname
                   City
                                 Comm
                    London
  1001
         Peel
                                 0.12
         Peel
                    London
                                 0.12
  1001
                    San_Jose
  1002
         Serres
                                 0.13
         Motika
                    London
                                 0.11
  1004
  1007
         Rifkin
                    Barcelona
                                 0.15
                    New_York
  1003
         Axelord
                                 0.10
6 rows in set (0.00 sec)
W2_93085_Tejal select sname, city from salespeople
    -> where city='london' and comm > 0.10;
          city
  sname
  Peel
           London
  Peel
           London
           London
  Motika
3 rows in set (0.01 sec)
```

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

W2_93085_Tejal select *from customers;						
Cnum Cname	City	Rating	Snum			
2001 Hoffman 2002 Giovanni 2003 Liu 2004 Grass 2006 Clemens 2008 Cisneros 2007 Pereira 	ect *from c		1001 1003 1002 1002 1001 1007 1004			
Cnum Cname	City	Rating	Snum			
2002 Giovanni 2003 Liu 2004 Grass 2008 Cisneros 2007 Pereira 	Rome San_Jose Berlin San_Jose Rome sec)	200 200 300 300 100	1003 1002 1002 1007 1004			

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));
```

Onum	Amt	Odate	Cnum	Snum
3001	18.69	1990-10-03	2008	1007
3003	767.19	1990-10-03	2001	1001
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
3007	75.75	1990-10-04	2004	1002
3008	4723.00	1990-10-05	2006	1001
3010	1309.95	1990-10-06	2004	1002
3011	9891.88	1990-10-06	2006	1001
 0 rows 2_9308	where(amt <	lect *from ord		·
 0 rows 12_93089 -> 1	5_Tejal sel where(amt <	lect *from ord < 1000 or = = '1990-10-0		·
 0 rows 12_93089 -> 1	5_Tejal sel where(amt < not (odate	lect *from ord < 1000 or = = '1990-10-0		Snum
2_93085 -> 1 -> 1	5_Tejal sel where(amt < not (odate and cnum>2	lect *from ord < 1000 or = = '1990-10-0 2003));	93'	 Snum
0 rows 2_93088 -> 1 -> -> 0 rows	5_Tejal sel where(amt < not (odate and cnum>2 +	lect *from ord < 1000 or = = '1990-10-0 2003)); 	93' + Cnum +	
0 rows 2_9308 -> 1 -> -> 0 num	5_Tejal selwhere(amt solution of context) and contexts Amt 18.69	Lect *from ord < 1000 or = = '1990-10-(2003)); 	93' Cnum 2008	1007
0 rows 2_9308 -> 1 -> -> 0 rows 3001	5_Tejal selwhere(amt not (odate and cnum>2)	Lect *from ord < 1000 or = '1990-10-0 2003)); 	93' Cnum 2008 2001	 1007 1001
0 rows 2_93088 -> 12_93088 -> 12_93088 -> 12_93088 -> 13_93 3003 3005	5_Tejal selwhere(amt of controls of contro	Lect *from ord < 1000 or = '1990-10-0 2003)); 	03' Cnum 2008 2001 2003 2002	1007 1001 1002
0 rows 2_93088 -> 1 -> -> 0num 3001 3003 3005 3009	5_Tejal selwhere(amt selwhere(amt selwhere) and cnum>2 +	Lect *from ord < 1000 or = '1990-10-0 2003)); 	03' Cnum 2008 2001 2003 2002 2004	1007 1001 1002 1003
0 rows 2_9308 -> 1 -> 0 num 3001 3003 3005 3009 3007	5_Tejal selwhere(amt of controls of contro	Lect *from ord < 1000 or = '1990-10-0 2003)); 	03 ' Cnum 2008 2001 2003 2002 2004 2006	1007 1001 1002 1003 1002

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);

W2_93085					
Onum	Amt	Odate	Cnum	 Snum	
3001	18.69	1990-10-03	2008	1007	
3003	767.19	1990-10-03	2001	1001	
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 i	1713.23	1990-10-04	2002	1003	
3007	75.75	1990-10-04	2004	1002	
3008	4723.00	1990-10-05	2006	1001	
j 3010 j	1309.95	1990-10-06	2004	1002	
3011	9891.88	1990-10-06	2006	1001	
_> N	vhere not	lect *from ord ((odate='1990- d amt>=1500);		or snum	1
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	1990-10-05	2006	1001	
3010	1309.95	1990-10-06	2004	1002	
3011	9891.88	1990-10-06	2006	1001	

6) What is a simpler way to write this query?

Select snum, sname, city, comm From Salespeople where (comm > .12 OR comm < .14);

W2_93085_Tejal Select snum, sname, city, comm From Salespeople -> where (comm > .12 OR comm < .14);							
snum	sname	city	comm				
: :	Peel Peel Serres Motika Rifkin Axelord	London London San_Jose London Barcelona New_York	0.12 0.12 0.13 0.11 0.15 0.10				
	•	lect *from sa	espeople 10 and 0.16;				
Snum +	Sname	City	Comm +				
1001 1001 1002 1004 1007 1003	Peel Peel Serres Motika Rifkin Axelord	London London San_Jose London Barcelona New_York	0.12 0.12 0.13 0.11 0.15 0.10				
6 rows in set (0.00 sec)							