

KD3_86686_Vaibhav

Assignment –5

Relational and Logical Operators.

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

```
Database changed
KD3_86686_Vaibhav@>select * from orders;
+-----+-----+-----+-----+-----+
| 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 |
+-----+-----+-----+-----+-----+
10 rows in set (0.01 sec)

KD3_86686_Vaibhav@>select amt from orders
-> where amount > 1000;
ERROR 1054 (42S22): Unknown column 'amount' in 'where'
KD3_86686_Vaibhav@>select amt from orders
-> where Amt > 1000;
+-----+
| amt |
+-----+
| 1900.10 |
| 5160.45 |
| 1098.16 |
| 1713.23 |
| 4723.00 |
| 1309.95 |
| 9891.88 |
+-----+
7 rows in set (0.01 sec)
```

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

```
KD3_86686_Vaibhav@>select * from Salespeople;
+-----+-----+-----+-----+
| 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)

KD3_86686_Vaibhav@>select SName, City from Salespeople
-> where City = 'London', and Comm > .10;
ERROR 1064 (42000): You have an error in your SQL syntax;
and Comm > .10' at line 2
KD3_86686_Vaibhav@>select SName, City from Salespeople
-> where City = 'London' and Comm > .10;
+-----+-----+
| SName | City |
+-----+-----+
| 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.

```
KD3_86686_Vaibhav@>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 |
| 2008 | Cisneros | San Jose | 300 | 1007 |
| 2007 | Pereira | Rome | 100 | 1004 |
+-----+-----+-----+-----+-----+
7 rows in set (0.00 sec)

KD3_86686_Vaibhav@>select * from Customers
-> where Rating > 100 OR City = 'Rome';
+-----+-----+-----+-----+-----+
| Cnum | Cname | City | Rating | Snum |
+-----+-----+-----+-----+-----+
| 2002 | Giovanni | Rome | 200 | 1003 |
| 2003 | Liu | San Jose | 200 | 1002 |
| 2004 | Grass | Berlin | 300 | 1002 |
| 2008 | Cisneros | San Jose | 300 | 1007 |
| 2007 | Pereira | Rome | 100 | 1004 |
+-----+-----+-----+-----+-----+
5 rows 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));

```
KD3_86686_Vaibhav@>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	1990-10-05	2006	1001
3010	1309.95	1990-10-06	2004	1002
3011	9891.88	1990-10-06	2006	1001

8 rows in set (0.01 sec)

- 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);

```
KD3_86686_Vaibhav@>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	1990-10-05	2006	1001
3010	1309.95	1990-10-06	2004	1002
3011	9891.88	1990-10-06	2006	1001

8 rows in set (0.00 sec)

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

```
MD3_86686_Vaibhav@>Select snum, sname, city, comm 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)

MD3_86686_Vaibhav@>select * from Salespeople;
+-----+-----+-----+-----+
| 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)

MD3_86686_Vaibhav@>
```