



**EASTERN UNIVERSITY, SRILANKA**

**SECOND EXAMINATION IN SCIENCE - 2004/2005**

**Repeat**

**FIRST SEMESTER (Jan./Feb.,2006)**

**CS 253 – Database Design (Practical)**

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**Time: 2 Hours**

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| SNo  | SName   | City      | Comm | CNo  | CName    | City     | Rating | ONo  | Amt     | Odate     |
|------|---------|-----------|------|------|----------|----------|--------|------|---------|-----------|
| 1007 | Rifkin  | Barcelona | 0.15 | 2008 | Cisneros | San Jose | 300    | 3001 | 18.69   | 10/3/2005 |
| 1001 | Peel    | London    | 0.12 | 2001 | Hoffman  | London   | 100    | 3003 | 767.19  | 10/3/2005 |
| 1004 | Motika  | London    | 0.11 | 2007 | Pereira  | Rome     | 100    | 3002 | 1900.00 | 10/3/2005 |
| 1002 | Serres  | San Jose  | 0.13 | 2003 | Liu      | San Jose | 200    | 3005 | 5160.45 | 10/3/2005 |
| 1007 | Rifkin  | Barcelona | 0.15 | 2008 | Cisneros | San Jose | 300    | 3006 | 1098.16 | 10/3/2005 |
| 1003 | Axelord | NewYork   | 0.10 | 2002 | Giovanni | Rome     | 200    | 3009 | 1713.23 | 10/4/2005 |
| 1002 | Serres  | San Jose  | 0.13 | 2004 | Grass    | Berlin   | 300    | 3007 | 75.75   | 10/4/2005 |
| 1001 | Peel    | London    | 0.12 | 2006 | Clemens  | London   | 100    | 3008 | 4723.0  | 10/5/2005 |
| 1002 | Serres  | San Jose  | 0.13 | 2004 | Grass    | Berlin   | 300    | 3010 | 1309.95 | 10/6/2005 |
| 1001 | Peel    | London    | 0.12 | 2006 | Clemens  | London   | 100    | 3011 | 9891.88 | 10/6/2005 |

The table above itself is intended to resemble a real-life business situation of salespeople, their customers and customer's orders. A particular salesperson may have more than one customer. Commission and personal details of a salesperson can be identified from salesperson's number. A customer can make many orders on a particular date.

Here is an explanation of the columns of the above table.

**SNo** - The number of a sales person.

**SName** - The name of the sales person.

**City** - The location of the sales person.

**Comm** - The salesperson's commission on orders in decimal form.

**CNo** - The number of the customer.

**CName** - The name of the customer

**City** - The location of the customer

**Rating** - A numeric code indicating level of preference given this customer. Higher numbers indicate greater preference.

**ONo** - The number of the purchase.

**Amt** - The amount of the purchase.

**ODate** - The date of the purchase.

Using SQL do the following queries.

- (i) Write a query that produces the salesperson details with the columns in the following order: City, SName, SNo.
- (ii) Get all customers who are located in San Jose or Rome.
- (iii) Write a query that selects all customers whose names begin with letter 'C'.
- (iv) Get all customers with rating less than 200.
- (v) List the commissions of all salespeople serving customers in London.
- (vi) Write a query that totals the orders for each day and places the results in descending order.
- (vii) Find all orders by customers not located in the same cities as their salespeople.
- (viii) Write a query that counts the number of different non null city values in the customers.