**selKIET GROUP OF INSTITUTIONS**

**DEPARTMENT OF COMPUTER APPLICATIONS**

**LAB ASSIGNMENT 9**

**DBMS Lab (KCA – 252)**

**Assignments on Aggregate Function**

Consider the following table to solve the queries.

**Sample table: orders**

ord\_no purch\_amt ord\_date customer\_id salesman\_id

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70001 150.5 2012-10-05 3005 5002

70009 270.65 2012-09-10 3001 5005

70002 65.26 2012-10-05 3002 5001

70004 110.5 2012-08-17 3009 5003

70007 948.5 2012-09-10 3005 5002

70005 2400.6 2012-07-27 3007 5001

70008 5760 2012-09-10 3002 5001

70010 1983.43 2012-10-10 3004 5006

70003 2480.4 2012-10-10 3009 5003

70012 250.45 2012-06-27 3008 5002

70011 75.29 2012-08-17 3003 5007

70013 3045.6 2012-04-25 3002 5001

1. write a SQL query to calculate total purchase amount of all orders. Return total purchase amount.

select SUM(PurchaseAmount) from Orders;

1. write a SQL query to calculate average purchase amount of all orders. Return average purchase amount.

select AVG(PurchaseAmount) from Orders;

1. write a SQL query to find the number of salespeople.

SELECT count(OrderNo) from Orders;

1. write a SQL query to find the maximum purchase amount.

SELECT MAX(PurchaseAmount) from Orders;

1. write a SQL query to find the minimum purchase amount.

SELECT MIN(PurchaseAmount) from Orders;

1. write a SQL query to find the highest purchase amount ordered by each customer. Return customer ID, maximum purchase amount.
2. write a SQL query to find the highest purchase amount ordered by each customer on a particular date. Return, order date and highest purchase amount.
3. write a SQL query to find the highest purchase amount on '2012-08-17' by each salesperson. Return salesperson ID, purchase amount.
4. write a SQL query to find highest order (purchase) amount by each customer in a particular order date. Filter the result by highest order (purchase) amount above 2000.00. Return customer id, order date and maximum purchase amount.
5. write a SQL query to find the maximum order (purchase) amount in the range 2000, 6000 (Begin and end values are included.) by combination of each customer and order date. Return customer id, order date and maximum purchase amount.
6. write a SQL query to find the maximum order (purchase) amount by each customer. The customer ID should be in the range 3002 and 3007(Begin and end values are included.). Return customer id and maximum purchase amount.
7. write a SQL query to count all the orders generated on '2012-08-17'. Return number of orders

**Sample table: customer**

customer\_id | cust\_name | city | grade | salesman\_id

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3002 | Nick Rimando | New York | 100 | 5001

3007 | Brad Davis | New York | 200 | 5001

3005 | Graham Zusi | California | 200 | 5002

3008 | Julian Green | London | 300 | 5002

3004 | Fabian Johnson | Paris | 300 | 5006

3009 | Geoff Cameron | Berlin | 100 | 5003

3003 | Jozy Altidor | Moscow | 200 | 5007

3001 | Brad Guzan | London | | 5005

1. write a SQL query to count the number of customers.
2. write a SQL query to find the number of customers who got at least a gradation for his/her activity.
3. write a SQL query to find the highest grade of the customers for each of the city. Return city, maximum grade.

**Sample table: salesman**

salesman\_id | name | city | commission

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5001 | James Hoog | New York | 0.15

5002 | Nail Knite | Paris | 0.13

5005 | Pit Alex | London | 0.11

5006 | Mc Lyon | Paris | 0.14

5007 | Paul Adam | Rome | 0.13

5003 | Lauson Hen | San Jose | 0.12

1. write a SQL query to count number of salespeople who belongs to a city. Return number of salespeople.

**Sample table: item\_mast**

PRO\_ID PRO\_NAME PRO\_PRICE PRO\_COM

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101 Mother Board 3200 15

102 Key Board 450 16

103 ZIP drive 250 14

104 Speaker 550 16

105 Monitor 5000 11

106 DVD drive 900 12

107 CD drive 800 12

108 Printer 2600 13

109 Refill cartridge 350 13

110 Mouse 250 12

1. write a SQL query to count number of products where product price is higher than or equal to 350. Return number of products.

Consider a table named **Employee( Eid, Name, Dept, Salary, DOJ)**

Solve the following queries.

1. Display the latest date on which an employee had joined.
2. Display the 1st date on which an employee had joined.
3. List out how many numbers of departments are there.
4. Display how many numbers of employees are there in MCA Department.
5. Display department wise maximum average salary.
6. Display the total number of employees in the organization.
7. Display department wise the numbers of employees working.