Assignment-6

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**Batch: 2nd year CSE**

**Table sales:**

+---------+------------+------------+---------------+--------------+

| orderID | orderDate | orderPrice | orderQuantity | costumerName |

+---------+------------+------------+---------------+--------------+

| 1 | 2005-12-22 | 160 | 2 | Smith |

| 2 | 2005-08-10 | 190 | 2 | Johnson |

| 3 | 2005-07-13 | 500 | 5 | Baldwin |

| 4 | 2005-07-15 | 420 | 2 | Smith |

| 5 | 2005-12-22 | 1000 | 4 | Wood |

| 6 | 2005-10-02 | 820 | 4 | Smith |

| 7 | 2005-11-03 | 2000 | 2 | Baldwin |

+---------+------------+------------+---------------+--------------+

**Query for creating the above table:**

mysql> CREATE TABLE sales(

-> orderID INT,

-> orderDate DATE,

-> orderPrice INT,

-> orderQuantity INT,

-> costumerName VARCHAR(10)

-> );

Query OK, 0 rows affected (0.06 sec)

mysql> INSERT INTO sales

-> VALUES

-> (1,'2005-12-22',160,2,'Smith'),

-> (2,'2005-08-10',190,2,'Johnson'),

-> (3,'2005-07-13',500,5,'Baldwin'),

-> (4,'2005-07-15',420,2,'Smith'),

-> (5,'2005-12-22',1000,4,'Wood'),

-> (6,'2005-10-02',820,4,'Smith'),

-> (7,'2005-11-03',2000,2,'Baldwin');

Query OK, 7 rows affected (0.02 sec)

Records: 7 Duplicates: 0 Warnings: 0

mysql> SELECT \* FROM sales;

+---------+------------+------------+---------------+--------------+

| orderID | orderDate | orderPrice | orderQuantity | costumerName |

+---------+------------+------------+---------------+--------------+

| 1 | 2005-12-22 | 160 | 2 | Smith |

| 2 | 2005-08-10 | 190 | 2 | Johnson |

| 3 | 2005-07-13 | 500 | 5 | Baldwin |

| 4 | 2005-07-15 | 420 | 2 | Smith |

| 5 | 2005-12-22 | 1000 | 4 | Wood |

| 6 | 2005-10-02 | 820 | 4 | Smith |

| 7 | 2005-11-03 | 2000 | 2 | Baldwin |

+---------+------------+------------+---------------+--------------+

7 rows in set (0.01 sec)

**Solve the following queries using Aggregate Function for above table:**

**1. Count how many orders have made a customer with CustomerName of Smith.**

**Answer:**

mysql> SELECT COUNT(costumerName) FROM sales

-> WHERE costumerName = 'Smith';

+---------------------+

| COUNT(costumerName) |

+---------------------+

| 3 |

+---------------------+

1 row in set (0.01 sec)

**2. Find number of unique customers that have ordered from the store.**

**Answer:**

mysql> SELECT COUNT(DISTINCT costumerName) Unique\_Costumers FROM sales;

+------------------+

| Unique\_Costumers |

+------------------+

| 4 |

+------------------+

1 row in set (0.00 sec)

**3. Find out total no. of items ordered by all the customers.**

**Answer:**

mysql> SELECT SUM(orderQuantity) Total\_Items FROM sales;

+-------------+

| Total\_Items |

+-------------+

| 21 |

+-------------+

1 row in set (0.00 sec)

**4. Find out average number of items per order.**

**Answer:**

mysql> SELECT AVG(orderQuantity) FROM sales;

+--------------------+

| AVG(orderQuantity) |

+--------------------+

| 3.0000 |

+--------------------+

1 row in set (0.00 sec)

**5. Find out the average OrderQuantity for all orders with Order Price greater than 200.**

**Answer:**

mysql> SELECT AVG(orderQuantity) FROM sales

-> WHERE orderPrice > 200;

+--------------------+

| AVG(orderQuantity) |

+--------------------+

| 3.4000 |

+--------------------+

1 row in set (0.00 sec)

**6. Find out what was the minimum price paid for any of the orders.**

**Answer:**

mysql> SELECT MIN(orderPrice) FROM sales;

+-----------------+

| MIN(orderPrice) |

+-----------------+

| 160 |

+-----------------+

1 row in set (0.00 sec)

**7. Find out the highest OrderPrice form the given sales table.**

**Answer:**

mysql> SELECT MAX(orderPrice) FROM sales;

+-----------------+

| MAX(orderPrice) |

+-----------------+

| 2000 |

+-----------------+

1 row in set (0.00 sec)

**8. List out unique customers name only from the table.**

**Answer:**

mysql> SELECT DISTINCT costumerName FROM sales;

+--------------+

| costumerName |

+--------------+

| Smith |

| Johnson |

| Baldwin |

| Wood |

+--------------+

4 rows in set (0.00 sec)

**9. List out name of the customers who have given order in the month of December.**

**Answer:**

mysql> SELECT costumerName, orderDate FROM sales

-> WHERE month(orderDate)=12;

+--------------+------------+

| costumerName | orderDate |

+--------------+------------+

| Smith | 2005-12-22 |

| Wood | 2005-12-22 |

+--------------+------------+

2 rows in set (0.01 sec)

**10. Find out the total amount of money spent for each of the customers.**

**Answer:**

mysql> SELECT costumerName, SUM(orderPrice) FROM sales

-> GROUP BY costumerName;

+--------------+-----------------+

| costumerName | SUM(orderPrice) |

+--------------+-----------------+

| Smith | 1400 |

| Johnson | 190 |

| Baldwin | 2500 |

| Wood | 1000 |

+--------------+-----------------+

4 rows in set (0.00 sec)

**11 Select all unique customers who have spent more than 1200 in the store.**

**Answer:**

mysql> SELECT costumerName, SUM(orderPrice) FROM sales

-> GROUP BY costumerName

-> HAVING SUM(orderPrice) > 1200;

+--------------+-----------------+

| costumerName | SUM(orderPrice) |

+--------------+-----------------+

| Smith | 1400 |

| Baldwin | 2500 |

+--------------+-----------------+

2 rows in set (0.00 sec)

**12 Select all customers that have ordered more than 5 items in total from all their orders.**

**Answer:**

mysql> SELECT costumerName, SUM(orderQuantity) FROM sales

-> GROUP BY costumerName

-> HAVING SUM(orderQuantity) > 5;

+--------------+--------------------+

| costumerName | SUM(orderQuantity) |

+--------------+--------------------+

| Smith | 8 |

| Baldwin | 7 |

+--------------+--------------------+

2 rows in set (0.00 sec)

**13 Select all customers who have spent more than 1000, after 10/01/2005.**

**Answer:**

mysql> SELECT \* FROM sales

-> WHERE orderDate>'2005/01/10'

-> GROUP BY costumerName

-> HAVING SUM(orderPrice)>1000;

+---------+------------+------------+---------------+--------------+

| orderID | orderDate | orderPrice | orderQuantity | costumerName |

+---------+------------+------------+---------------+--------------+

| 1 | 2005-12-22 | 160 | 2 | Smith |

| 3 | 2005-07-13 | 500 | 5 | Baldwin |

+---------+------------+------------+---------------+--------------+

2 rows in set (0.00 sec)

**14. Select orders in increasing order of order price.**

**Answer:**

mysql> SELECT \* FROM sales

-> ORDER BY orderPrice;

+---------+------------+------------+---------------+--------------+

| orderID | orderDate | orderPrice | orderQuantity | costumerName |

+---------+------------+------------+---------------+--------------+

| 1 | 2005-12-22 | 160 | 2 | Smith |

| 2 | 2005-08-10 | 190 | 2 | Johnson |

| 4 | 2005-07-15 | 420 | 2 | Smith |

| 3 | 2005-07-13 | 500 | 5 | Baldwin |

| 6 | 2005-10-02 | 820 | 4 | Smith |

| 5 | 2005-12-22 | 1000 | 4 | Wood |

| 7 | 2005-11-03 | 2000 | 2 | Baldwin |

+---------+------------+------------+---------------+--------------+

7 rows in set (0.00 sec)

**15. Select orders in decreasing order of order price.**

**Answer:**

mysql> SELECT \* FROM sales

-> ORDER BY orderPrice DESC;

+---------+------------+------------+---------------+--------------+

| orderID | orderDate | orderPrice | orderQuantity | costumerName |

+---------+------------+------------+---------------+--------------+

| 7 | 2005-11-03 | 2000 | 2 | Baldwin |

| 5 | 2005-12-22 | 1000 | 4 | Wood |

| 6 | 2005-10-02 | 820 | 4 | Smith |

| 3 | 2005-07-13 | 500 | 5 | Baldwin |

| 4 | 2005-07-15 | 420 | 2 | Smith |

| 2 | 2005-08-10 | 190 | 2 | Johnson |

| 1 | 2005-12-22 | 160 | 2 | Smith |

+---------+------------+------------+---------------+--------------+

7 rows in set (0.00 sec)