



Department of Computer Science & Engineering

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Assignment 3: Queries using Group by & Having Clause

SCHEMA: S_ORD (CUS_ID, DATE_ORDER, DATE_SHIPMENT, SP_NO, TOTAL, PAYMENT)

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CUS_id	date_order	date_shipment	sp_no	total	Payment
97	1992-08-28	1992-09-17	12	84000.00	Credit
98	1992-08-31	1992-09-10	14	595.00	Cash
99	1992-08-31	1992-09-18	14	7707.00	Credit
100	1992-08-31	1992-09-10	11	601100.00	Credit
101	1992-08-31	1992-09-15	14	8056.60	Credit
102	1992-09-01	1992-09-08	15	8335.00	Credit
103	1992-09-02	1992-09-22	15	377.00	Cash
104	1992-09-03	1992-09-23	15	32430.00	Credit
105	1992-09-04	1992-09-18	11	2722.24	Credit
106	1992-09-07	1992-09-15	12	15634.00	Credit
107	1992-09-07	1992-09-21	15	142171.00	Credit
108	1992-09-07	1992-09-10	13	149730.00	Credit
109	1992-09-08	1992-09-28	11	1020935.00	Credit
110	1992-09-09	1992-09-21	11	1539.13	Cash
111	1992-09-09	1992-09-21	11	2770.00	Cash
112	1992-08-31	1992-09-10	12	550.00	Credit
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QUESTIONS:

1. Write SQL query that displays the total and average payments of all the credit orders.

2. Write SQL query that displays the total and average payments grouped by type of payment.

3. How many order dates are represented compared to the total number of orders?

4. How many customers and sales representative are represented compared to the total number of orders?

5. Write SQL query that displays the lowest and highest payments of all the orders.

6. What is the average amount of the order for each sales representative?

7. Write an SQL query to display the order dates and how many orders were on each date.

8. Write SQL query to display the order amount by payment type for each sales representative.

```
mysql> Select Sp_no ,Payment, Total from s_ord group by SP_no, payment;

| Sp_no | Payment | Total |
| 11 | Cash | 1539.13 |
| 11 | Credit | 601100.00 |
| 12 | Credit | 84000.00 |
| 13 | Credit | 149730.00 |
| 14 | Cash | 595.00 |
| 14 | Credit | 7707.00 |
| 15 | Cash | 377.00 |
| 15 | Cash | 8335.00 |
| **Tows in set (0.00 sec)**
```

9. Query to display the highest and lowest order for each order date where more than one order was placed.

```
mysql> select date_order,min(total),max(total) from s_ord group by date_order having count(date_order)>1;

| date_order | min(total) | max(total) |

| 1992-08-31 | 550.00 | 601100.00 |

| 1992-09-07 | 15634.00 | 149730.00 |

| 1992-09-09 | 1539.13 | 2770.00 |

3 rows in set (0.05 sec)
```

10. SQL query to display the average order for each order date where more than one order was placed and the average order is greater than 1000. Display them in order of average order.

```
mysql> select date_order,avg(total) from s_ord group by date_order having count(date_order)>1 AND avg(total)>1000 order by avg(total);

| date_order | avg(total) |
| 1992-09-09 | 2154.565002 |
| 1992-09-07 | 102511.666667 |
| 1992-08-31 | 123601.720020 |

3 rows in set (0.04 sec)
```

11. Display the customer number with more than one order. Arrange alphabetically by customer id.

```
mysql> select cus_id from s_ord group by cus_id having count(*)>1 order by cus_id;
Empty set (0.04 sec)
```

```
mysql> select dname from dept1 where dnumber in (select dno from emp1 where ssn=7469);
+-----+
| dname |
+-----+
| CS |
+-----+
1 row in set (0.00 sec)
```