

SQL Assignment 11

Subqueries

Q.1 Write a query that uses a subquery to obtain all orders for the customer named Cisneros
Without using cnum:

```
D5_Shaurya_83785>SELECT Onum,Amt, Odate, ORDERS.Snum FROM ORDERS WHERE ORDERS.Snum
= (SELECT SNUM FROM CUSTOMERS WHERE CNAME = 'Cisneros');
+-----+-----+-----+-----+
| Onum | Amt      | Odate      | Snum |
+-----+-----+-----+-----+
| 3001 | 18.69    | 1990-10-03 | 1007 |
| 3006 | 1098.16  | 1990-10-03 | 1007 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

Using Cnum:

```
D5_Shaurya_83785>SELECT Onum, Amt, Odate, Cnum from ORDERS WHERE CNUM = (SELECT
CNUM FROM CUSTOMERS WHERE CNAME = 'Cisneros');
+-----+-----+-----+-----+
| Onum | Amt      | Odate      | Cnum |
+-----+-----+-----+-----+
| 3001 | 18.69    | 1990-10-03 | 2008 |
| 3006 | 1098.16  | 1990-10-03 | 2008 |
+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

Q.2 Write a query that produces the names and ratings of all customers who have above average
orders.

Half: (Trying to print names and ratings of customers)

```
D5_Shaurya_83785>SELECT CNUM FROM ORDERS A WHERE Amt>=(SELECT AVG(Amt)FROM ORDERS)
;
+-----+
| CNUM |
+-----+
| 2003 |
| 2006 |
| 2006 |
+-----+
3 rows in set (0.01 sec)
```

Final Answer:

```
D5_Shaurya_83785>SELECT CNAME, RATING,CUSTOMERS.CNUM FROM CUSTOMERS WHERE CUSTOMER
S.CNUM =ANY (SELECT A.CNUM FROM ORDERS A WHERE Amt>=(SELECT AVG(Amt) FROM ORDERS))
;
+-----+-----+-----+
| CNAME | RATING | CNUM |
+-----+-----+-----+
| Liu   | 200    | 2003 |
| Clemens | 100    | 2006 |
+-----+-----+-----+
2 rows in set (0.01 sec)
```

Q.3 Write a query that selects the total amount in orders for each salesperson for whom this total is greater than the amount of the largest order in the table.

Sum of amount of orders by each salesperson:

```
D5_Shaurya_83785>SELECT DISTINCT SNUM, SUM(Amt) FROM ORDERS GROUP BY SNUM ORDER BY 1;
```

SNUM	SUM(Amt)
1001	15382.07
1002	6546.15
1003	1713.23
1004	1900.10
1007	1116.85

5 rows in set (0.00 sec)

Final Answer:

```
D5_Shaurya_83785>SELECT SNUM, SUM(Amt) FROM ORDERS GROUP BY SNUM HAVING SUM(Amt) > (SELECT MAX(Amt) FROM ORDERS);
```

SNUM	SUM(Amt)
1001	15382.07

1 row in set (0.00 sec)