Heaven's Light is Our Guide Rajshahi University of Engineering and Technology



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Lab Report 7: MySQL Query on Database.

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1 Tools Used

- MySQL
- VS Code as an IDE to use SQL
- MacTeX -LATEX compiler
- VS Code with LaTeX workshop extension as a text editor

2 Process

SQL Codes:

2.0.1 Display the order number, order date & the purchase amount for order(s) which will be delivered by the salesman with ID 5001.

Code:

```
order_no as "Order No",
order_date as "Order Date",
purchase_amount as "Purchase Amount"
FROM
Relations.Order
WHERE
salesman_id = 5001
```

2.0.2 Find the customer name & price of the cheapest items(s) using subquery.

Code:

```
SELECT
c.customer_name as "Customer Name",
o.purchase_amount as "Purchase Amount"
from
Relations.Customer c,
```

```
Relations.Order o
   WHERE
       c.customer_id = (
            SELECT
                 customer_id
10
            FROM
11
                Relations.Order o
12
            WHERE
                purchase_amount = (
14
                     SELECT
15
                          min(purchase_amount)
16
                     FROM
17
                          Relations.Order
18
                 )
19
20
       AND purchase_amount = (
            SELECT
                min(purchase_amount)
23
            FROM
24
                Relations.Order
25
       )
26
```

2.0.3 Find those salesmen with all information who gets the commission within a range of 0.12 & 0.14.

Code:

```
salesman_id as "Salesman ID",
name as "Salesman Name",
city as "City",
commission as "Commission"
FROM
Relations.salesman
WHERE
commission >= 0.12
AND commission <= 0.14
```

2.0.4 Find the total purchase amount of all orders.

Code:

```
SELECT
sum(purchase_amount) as "Total Purchased Amount"
FROM
Relations.Order
```

2.0.5 Find the highest purchase amount on date "2016-08-17" for each salesman with their ID.

Code:

```
1 SELECT
2     MAX(purchase_amount) as "Max Purchased Amount",
3     salesman_id as "Salesman ID",
4     order_date as "Order Date"
5 FROM
6     Relations.Order
7 WHERE
8     order_date = "2016-08-17"
9 GROUP BY
10     salesman_id
```

2.0.6 Display all the orders issued by the salesman "Paul Adam" from the orders table.

Code:

```
SELECT
       order_no as "Order No",
       purchase_amount as "Purchase Amount",
       order_date as "Order Date",
       customer_id as "Customer ID",
       salesman_id as "Salesman ID"
   FROM
       Relations.Order
   WHERE
       salesman_id = (
10
           SELECT
11
                salesman_id
12
           from
13
               Relations.salesman
```

```
WHERE
name = 'Paul Adam'
)
```

3 Output

Order No	Order Date	Purchase Amo
abc Filter	abc Filter	abc Filter
70002	2016-08-17	65.26
70005	2013-10-17	2400.60
70008	2016-08-17	5760.00
70013	2016-08-17	3045.60

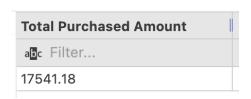
Order number, order date & the purchase amount for order(s) which will be delivered by the salesman with ID 5001

Customer Name	Purchase Amount	
abc Filter	abc Filter	
Nick Romando	65.26	

The customer name & price of the cheapest items(s) using sub-query

Salesman ID	Salesman Name	City	Commission
abc Filter	abc Filter	а Б с Filter	abc Filter
5002	Nail Knite	Paris	0.13
5003	Lauson Hen	NULL	0.12
5006	Mc Lyon	New York	0.14
5007	Paul Adam	Rome	0.13

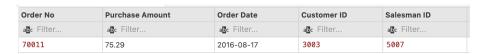
Salesmen with all information who gets the commission within a range of 0.12~&~0.14



The total purchase amount of all orders



The highest purchase amount on date "2016-08-17" for each sales man with their



Display all the orders issued by the salesman "Paul Adam" from the orders table