

## Comp1168 LabNo08

Name: Lopes Mafra, Breno

CRN: 50143

Student Id: 101485572

Date: 021/03/2024

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### Question1

SELECT

COUNT(payment\_total) AS No\_of\_Payments,  
SUM(payment\_total) AS Total\_Payment\_Amount,  
AVG(payment\_total) AS AverageAmount,  
MIN(payment\_total) AS MinimumPayment,  
MAX(payment\_total) AS MaximumPayment

FROM ap.invoices

WHERE payment\_total > 0;

**a)**

SELECT

vendor\_id,  
COUNT(payment\_total) AS Total\_No\_of\_Payments,  
SUM(payment\_total) AS TotalAmount,  
AVG(payment\_total) AS AveragePayment,  
MIN(payment\_total) AS MinimumPayment,  
MAX(payment\_total) AS MaximumPayment

FROM ap.invoices

WHERE payment\_total > 0

GROUP BY vendor\_id;

**b)**

SELECT

v.vendor\_id,

v.vendor\_name,

COUNT(i.payment\_total) AS Total\_No\_of\_Payments,

SUM(i.payment\_total) AS TotalAmount,

AVG(i.payment\_total) AS AveragePayment,

MIN(i.payment\_total) AS MinimumPayment,

MAX(i.payment\_total) AS MaximumPayment

FROM ap.vendors v

JOIN ap.invoices i ON v.vendor\_id = i.vendor\_id

WHERE i.payment\_total > 0

GROUP BY v.vendor\_id, v.vendor\_name;

## **Question2**

SELECT

v.vendor\_state AS State,

COUNT(DISTINCT v.vendor\_id) AS TotalVendors,

SUM(i.payment\_total) AS TotalPayments

FROM ap.vendors v

JOIN ap.invoices i ON v.vendor\_id = i.vendor\_id

GROUP BY v.vendor\_state;

**a)**

```
SELECT
    v.vendor_state AS State,
    v.vendor_city AS City,
    v.vendor_zip_code AS ZipCode,
    COUNT(DISTINCT v.vendor_id) AS TotalVendors,
    SUM(i.payment_total) AS InvoicedAmt
FROM ap.vendors v
JOIN ap.invoices i ON v.vendor_id = i.vendor_id
GROUP BY v.vendor_state, v.vendor_city, v.vendor_zip_code;
```

### **Question3**

```
SELECT
    CONCAT(c.customer_first_name, ' ', c.customer_last_name) AS CustomerName,
    o.order_date,
    COUNT(DISTINCT od.order_id) AS No_of_Orders_placed,
    SUM(od.order_qty) AS TotalItemsOrdered,
    SUM(o.order_qty) AS OrderTotalAmount
FROM your_database_name.orders o
JOIN your_database_name.order_details od ON o.order_id = od.order_id
JOIN your_database_name.customers c ON o.customer_id = c.customer_id
GROUP BY o.order_date, CustomerName
HAVING COUNT(DISTINCT o.order_id) > 1;
```

#### Question4

SELECT

d.department\_name AS Department,

COUNT(e.employee\_id) AS No\_of\_Employees

FROM ex.departments d

JOIN ex.employees e ON d.department\_number = e.department\_number

GROUP BY d.department\_name;

**a)**

SELECT

IFNULL(d.department\_name, 'TOTAL=') AS Department,

COUNT(e.employee\_id) AS No\_of\_Employees

FROM ex.departments d

JOIN ex.employees e ON d.department\_number = e.department\_number

GROUP BY d.department\_name WITH ROLLUP

ORDER BY IF(d.department\_name IS NULL, 1, 0), No\_of\_Employees DESC;