**Lab 8**

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-- Question 1--

SELECT COUNT(payment\_total) AS no\_of\_payments, ROUND(SUM(payment\_total),2),ROUND(AVG(payment\_total),2),ROUND(MIN(payment\_total),2),ROUND(MAX(payment\_total),2)

FROM ap.invoices

WHERE payment\_total > 0;

-- Question 1a --

SELECT i.vendor\_id, vendor\_name, COUNT(payment\_total) AS no\_of\_payments, ROUND(SUM(payment\_total),2),ROUND(AVG(payment\_total),2),ROUND(MIN(payment\_total),2),ROUND(MAX(payment\_total),2)

FROM ap.invoices i, ap.vendors v

WHERE payment\_total > 0

GROUP BY vendor\_id;

-- Question 1b--

SELECT i.vendor\_id, vendor\_name, COUNT(payment\_total) AS no\_of\_payments, ROUND(SUM(payment\_total),2),ROUND(AVG(payment\_total),2),ROUND(MIN(payment\_total),2),ROUND(MAX(payment\_total),2)

FROM ap.invoices i, ap.vendors v

WHERE v.vendor\_id=i.vendor\_id

AND payment\_total > 0

GROUP BY vendor\_id;

-- Question 2 --

SELECT vendor\_state, COUNT(DISTINCT(vendor\_id)) AS TotalVendors, SUM(payment\_total) AS TotalPayments

FROM ap.vendors v, ap.invoices i

WHERE v.vendor\_id=i.vendor\_id

GROUP BY vendor\_state;

-- Quuestion 2a --

SELECT vendor\_state, vendor\_city, vendor\_zip\_code, COUNT(DISTINCT(v.vendor\_id)) AS TotalVendors, SUM(payment\_total) AS TotalPayments

FROM ap.vedndors v, ap.invoices i

WHERE v.vendor\_id=i.vendor\_id

GROUP BY vendor\_state,vendor\_city,vendor\_zip\_code;

-- Question 3--

SELECT CONCAT(customer\_last\_name, ',', customer\_first\_name) AS full\_name, order\_date,

COUNT(\*), SUM (unit\_price)

FROM om.customers c

JOIN om.orders o

ON o.customer\_id = c.customer\_id

JOIN om.order\_details od

ON od.order\_id = o.order\_id

JOIN om.items i

ON i.item\_id = od.item\_id

GROUP BY CONCAT(customer\_last\_name, ',',customer\_first\_name), order\_date

HAVING COUNT(\*) > 1

ORDER BY CONCAT(customer\_last\_name, ',',customer\_first\_name);

-- Question 4 --

select department\_name, count(\*) AS "No of employees"

from ex.departments d

INNER JOIN ex.employees e

ON e.department\_number = d.department\_number

GROUP BY department\_name;

-- 4a --

select IFNULL(department\_name, 'TOTAL = '), count(\*)

from ex.departments d

INNER JOIN ex.employees e

ON e.department\_number = d.department\_number

GROUP BY department\_name WITH ROLLUP;