**Done by: Shen Yang (All queries)**

**GTID: 902912328**

Query 1:

SELECT A1.Store\_Nbr, A1.Store\_Name, A2.Sum\_Of\_TVA

FROM

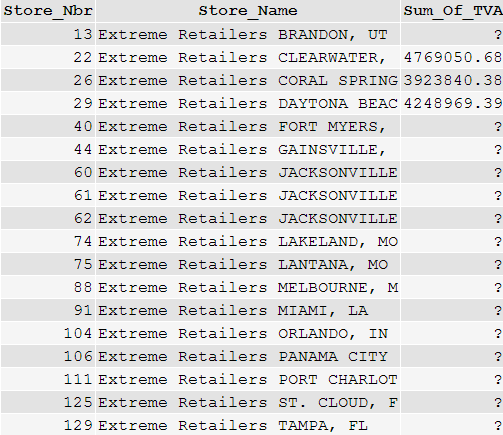
(SELECT Store\_Nbr, Store\_Name FROM store\_information WHERE State = 'FL') A1

LEFT JOIN

(SELECT Store\_Nbr, SUM(Total\_Visit\_Amt) Sum\_Of\_TVA FROM store\_visits GROUP BY Store\_Nbr) A2

ON A1.Store\_Nbr = A2.Store\_Nbr

ORDER BY A1.Store\_Nbr



Query 2:

SELECT x.Week, x.Store\_Nbr, x.StorePerWeekTotal, z.WeekTotal, q.StoreTotal, w.TotalTotal FROM

(SELECT c.Week, SUM(Total) WeekTotal FROM

(SELECT b.Store\_Nbr, b.Week, SUM(b.Total\_Visit\_Amt) Total FROM

(SELECT Store\_Nbr FROM store\_information WHERE State='FL') a

INNER JOIN

(SELECT ROUND((EXTRACT(DAY FROM Transaction\_Date)-1)/7+1,0) AS Week, Store\_Nbr, Total\_Visit\_Amt FROM store\_visits

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) b

ON a.Store\_Nbr = b.Store\_Nbr

GROUP BY b.Store\_Nbr, b.Week) c

GROUP BY c.Week) z

FULL JOIN

(SELECT b.Store\_Nbr, b.Week, SUM(b.Total\_Visit\_Amt) StorePerWeekTotal FROM

(SELECT Store\_Nbr FROM store\_information WHERE State='FL') a

INNER JOIN

(SELECT ROUND((EXTRACT(DAY FROM Transaction\_Date)-1)/7+1,0) AS Week, Store\_Nbr, Total\_Visit\_Amt FROM store\_visits

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) b

ON a.Store\_Nbr = b.Store\_Nbr

GROUP BY b.Store\_Nbr, b.Week) x

ON z.Week = x.Week

FULL JOIN

(SELECT b.Store\_Nbr, SUM(b.Total\_Visit\_Amt) StoreTotal FROM

(SELECT Store\_Nbr FROM store\_information WHERE State='FL') a

INNER JOIN

(SELECT ROUND((EXTRACT(DAY FROM Transaction\_Date)-1)/7+1,0) AS Week, Store\_Nbr, Total\_Visit\_Amt FROM store\_visits

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) b

ON a.Store\_Nbr = b.Store\_Nbr

GROUP BY b.Store\_Nbr) q

ON q.Store\_Nbr = x.Store\_Nbr

CROSS JOIN

(SELECT SUM(Total) TotalTotal FROM

(SELECT b.Store\_Nbr, b.Week, SUM(b.Total\_Visit\_Amt) Total FROM

(SELECT Store\_Nbr FROM store\_information WHERE State='FL') a

INNER JOIN

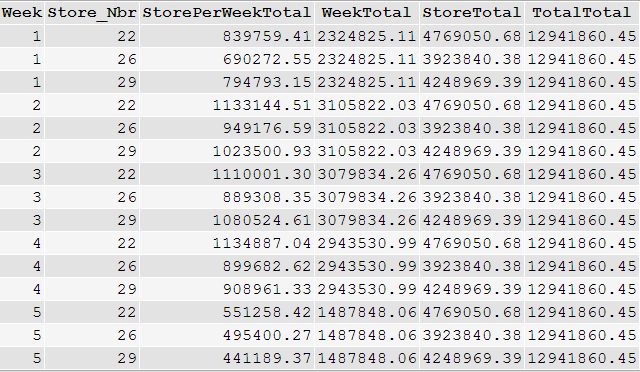
(SELECT ROUND((EXTRACT(DAY FROM Transaction\_Date)-1)/7+1,0) AS Week, Store\_Nbr, Total\_Visit\_Amt FROM store\_visits

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) b

ON a.Store\_Nbr = b.Store\_Nbr

GROUP BY b.Store\_Nbr, b.Week) f) w

ORDER BY x.Week, x.Store\_Nbr



Query 3:

SELECT z.Week, z.Store\_Nbr, z.Total, z.Ranking FROM

(SELECT c.GRanking, c.Week, c.Store\_Nbr, c.Total, RANK() OVER(ORDER BY c.Total DESC) As Ranking FROM

(SELECT RANK() OVER(ORDER BY SUM(a.Total\_Visit\_Amt) DESC) As GRanking, a.Week, a.Store\_Nbr, SUM(a.Total\_Visit\_Amt) Total FROM

(SELECT ROUND((EXTRACT(DAY FROM Transaction\_Date)-1)/7+1,0) AS Week, Store\_Nbr, Total\_Visit\_Amt FROM store\_visits

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) a

LEFT JOIN

(SELECT Store\_Nbr, State FROM store\_information) b

ON a.Store\_Nbr = b.Store\_Nbr

WHERE b.State='FL'

GROUP BY a.Week, a.Store\_Nbr) c

WHERE c.Week = 1

UNION

SELECT c.GRanking, c.Week, c.Store\_Nbr, c.Total, RANK() OVER(ORDER BY c.Total DESC) As Ranking FROM

(SELECT RANK() OVER(ORDER BY SUM(a.Total\_Visit\_Amt) DESC) As GRanking, a.Week, a.Store\_Nbr, SUM(a.Total\_Visit\_Amt) Total FROM

(SELECT ROUND((EXTRACT(DAY FROM Transaction\_Date)-1)/7+1,0) AS Week, Store\_Nbr, Total\_Visit\_Amt FROM store\_visits

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) a

LEFT JOIN

(SELECT Store\_Nbr, State FROM store\_information) b

ON a.Store\_Nbr = b.Store\_Nbr

WHERE b.State='FL'

GROUP BY a.Week, a.Store\_Nbr) c

WHERE c.Week = 2

UNION

SELECT c.GRanking, c.Week, c.Store\_Nbr, c.Total, RANK() OVER(ORDER BY c.Total DESC) As Ranking FROM

(SELECT RANK() OVER(ORDER BY SUM(a.Total\_Visit\_Amt) DESC) As GRanking, a.Week, a.Store\_Nbr, SUM(a.Total\_Visit\_Amt) Total FROM

(SELECT ROUND((EXTRACT(DAY FROM Transaction\_Date)-1)/7+1,0) AS Week, Store\_Nbr, Total\_Visit\_Amt FROM store\_visits

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) a

LEFT JOIN

(SELECT Store\_Nbr, State FROM store\_information) b

ON a.Store\_Nbr = b.Store\_Nbr

WHERE b.State='FL'

GROUP BY a.Week, a.Store\_Nbr) c

WHERE c.Week = 3

UNION

SELECT c.GRanking, c.Week, c.Store\_Nbr, c.Total, RANK() OVER(ORDER BY c.Total DESC) As Ranking FROM

(SELECT RANK() OVER(ORDER BY SUM(a.Total\_Visit\_Amt) DESC) As GRanking, a.Week, a.Store\_Nbr, SUM(a.Total\_Visit\_Amt) Total FROM

(SELECT ROUND((EXTRACT(DAY FROM Transaction\_Date)-1)/7+1,0) AS Week, Store\_Nbr, Total\_Visit\_Amt FROM store\_visits

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) a

LEFT JOIN

(SELECT Store\_Nbr, State FROM store\_information) b

ON a.Store\_Nbr = b.Store\_Nbr

WHERE b.State='FL'

GROUP BY a.Week, a.Store\_Nbr) c

WHERE c.Week = 4

UNION

SELECT c.GRanking, c.Week, c.Store\_Nbr, c.Total, RANK() OVER(ORDER BY c.Total DESC) As Ranking FROM

(SELECT RANK() OVER(ORDER BY SUM(a.Total\_Visit\_Amt) DESC) As GRanking, a.Week, a.Store\_Nbr, SUM(a.Total\_Visit\_Amt) Total FROM

(SELECT ROUND((EXTRACT(DAY FROM Transaction\_Date)-1)/7+1,0) AS Week, Store\_Nbr, Total\_Visit\_Amt FROM store\_visits

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) a

LEFT JOIN

(SELECT Store\_Nbr, State FROM store\_information) b

ON a.Store\_Nbr = b.Store\_Nbr

WHERE b.State='FL'

GROUP BY a.Week, a.Store\_Nbr) c

WHERE c.Week = 5) z

ORDER BY z.Week, z.Store\_Nbr



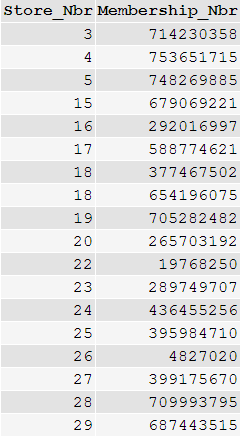
Query 4:

SELECT Store\_Nbr, Membership\_Nbr FROM store\_visits

GROUP BY Store\_Nbr, Membership\_Nbr

HAVING COUNT(\*) > 1000

ORDER BY Store\_Nbr, Membership\_Nbr



Query 5:

SELECT Store\_Nbr, COUNT(Store\_Nbr) AS FREQ FROM store\_visits

GROUP BY Store\_Nbr

HAVING COUNT(Store\_Nbr) = (SELECT MAX(CNT) FROM (SELECT Store\_Nbr, COUNT(Store\_Nbr) as CNT FROM store\_visits GROUP BY Store\_Nbr) c)



Query 6:

SELECT a.Membership\_Nbr, COUNT(\*)

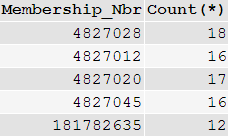
FROM

(SELECT Membership\_Nbr, Store\_Nbr FROM store\_visits

GROUP BY Membership\_Nbr, Store\_Nbr) a

GROUP BY a.Membership\_Nbr

HAVING COUNT(\*) > 10



Query 7:

SELECT g.item\_Nbr, item\_desc.UPC\_Desc, g.Total, g.Week FROM

(SELECT f.Total, f.Week, f.Item\_Nbr FROM

(SELECT MAX(d.Total) Mega, d.Week FROM

(SELECT c.Item\_Nbr, SUM(c.Total) Total, c.Week FROM

(SELECT a.Item\_Nbr, a.Total, ROUND((EXTRACT(DAY FROM a.transaction\_Date)-1)/7+1,0) Week

FROM

(SELECT x.Item\_Nbr, x.Total, x.transaction\_Date FROM

(SELECT Store\_Nbr FROM store\_information

WHERE State='FL') z

LEFT JOIN

(SELECT Store\_Nbr, Item\_Nbr, SUM(Item\_Quantity) Total, transaction\_Date FROM item\_scan GROUP BY Item\_Nbr, transaction\_Date, Store\_Nbr) x

ON z.Store\_Nbr = x.Store\_Nbr) a

LEFT JOIN

(SELECT Item\_Nbr FROM item\_desc GROUP BY Item\_Nbr) b

ON a.Item\_Nbr = b.Item\_Nbr

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) c

GROUP BY c.Item\_Nbr, c.Week) d

GROUP BY d.Week) e

INNER JOIN

(SELECT c.Item\_Nbr, SUM(c.Total) Total, c.Week FROM

(SELECT a.Item\_Nbr, a.Total, ROUND((EXTRACT(DAY FROM a.transaction\_Date)-1)/7+1,0) Week

FROM

(SELECT x.Item\_Nbr, x.Total, x.transaction\_Date FROM

(SELECT Store\_Nbr FROM store\_information

WHERE State='FL') z

LEFT JOIN

(SELECT Store\_Nbr, Item\_Nbr, SUM(Item\_Quantity) Total, transaction\_Date FROM item\_scan GROUP BY Item\_Nbr, transaction\_Date, Store\_Nbr) x

ON z.Store\_Nbr = x.Store\_Nbr) a

LEFT JOIN

(SELECT Item\_Nbr FROM item\_desc GROUP BY Item\_Nbr) b

ON a.Item\_Nbr = b.Item\_Nbr

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000) c

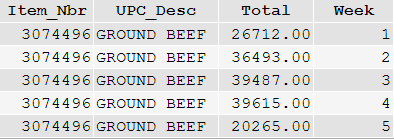
GROUP BY c.Item\_Nbr, c.Week) f

ON f.Week=e.Week and f.Total=e.Mega) g

LEFT JOIN item\_desc

ON item\_desc.Item\_Nbr = g.Item\_Nbr

ORDER BY g.WEEK



**Query 8:**

SELECT c.Vendor\_Nbr, c.Store\_Nbr FROM

(SELECT b.Store\_Nbr, a.Vendor\_Nbr, SUM(a.Total) Total2 FROM

(SELECT Store\_Nbr FROM store\_information WHERE State='FL') b

LEFT JOIN

(SELECT item\_desc.Item\_Nbr, item\_desc.Vendor\_Nbr, SUM(item\_scan.Item\_Quantity) Total, item\_scan.Store\_Nbr FROM item\_desc

LEFT JOIN item\_scan

ON item\_scan.Item\_Nbr = item\_desc.Item\_Nbr

GROUP BY item\_desc.Item\_Nbr, item\_desc.Vendor\_Nbr, item\_scan.Store\_Nbr) a

ON b.Store\_Nbr = a.Store\_Nbr

GROUP BY b.Store\_Nbr, a.Vendor\_Nbr) c

LEFT JOIN

(SELECT b.Store\_Nbr, SUM(a.Total) TotalAll FROM

(SELECT Store\_Nbr FROM store\_information WHERE State='FL') b

LEFT JOIN

(SELECT item\_desc.Item\_Nbr, item\_desc.Vendor\_Nbr, SUM(item\_scan.Item\_Quantity) Total, item\_scan.Store\_Nbr FROM item\_desc

LEFT JOIN item\_scan

ON item\_scan.Item\_Nbr = item\_desc.Item\_Nbr

GROUP BY item\_desc.Item\_Nbr, item\_desc.Vendor\_Nbr, item\_scan.Store\_Nbr) a

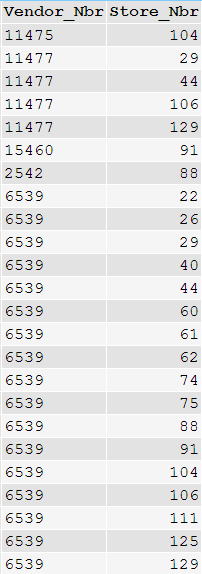
ON b.Store\_Nbr = a.Store\_Nbr

GROUP BY b.Store\_Nbr) d

ON c.Store\_Nbr=d.Store\_Nbr

WHERE Total2 > TotalAll\*0.06

ORDER BY c.Vendor\_Nbr, c.Store\_Nbr



**APPENDIX:**

**TO GET Week**

SELECT ROUND((EXTRACT(DAY FROM Transaction\_Date)-1)/7+1,0) AS Week, Transaction\_Date FROM store\_visits

WHERE EXTRACT(MONTH FROM Transaction\_Date)=1 AND EXTRACT(YEAR FROM Transaction\_Date)=2000