



GROUP BY sales\_year, sales\_month, store

TO PASS 76% or higher



Retake the assignment in **7h 57m** 

GRADE 100%

## Wook E Graded Quiz using Toradata

LAT	LATEST SUBMISSION GRADE 100%		
1.	Have you completed the week 5 Teradata practice exercises guide?  Answer Yes or No.  Yes  No	1/1 point	
	Correct Great! You are ready to take this quiz.		
2.	How many distinct skus have the brand "Polo fas", and are either size "XXL" or "black" in color?  13,623  5,224  84  27,271	1/1 point	
	✓ Correct There are several possible queries that would arrive at the right answer, one of which is:  SELECT COUNT(DISTINCT sku)  FROM skuinfo WHERE brand = 'polo fas' AND (color = 'black' OR size = 'XXL');		
3.	There was one store in the database which had only 11 days in one of its months (in other words, that store/month/year combination only contained 11 days of transaction data). In what city and state was this store located?  Little Rock, AR  Atlanta, GA  Richmond, VA  Tulsa, OK	1/1 point	
	There are several possible queries that would arrive at the right answer, one of which is:  SELECT DISTINCT t.store, s.city, s.state  FROM trnsact t JOIN strinfo s  ON t.store=s.store  WHERE t.store IN (SELECT days_in_month.store  FROM(SELECT EXTRACT(YEAR from saledate) AS sales_year,  EXTRACT(MONTH from saledate) AS sales_month, store, COUNT (DISTINCT saledate) as numdays  FROM trnsact		

4.	Which sku number had the greatest increase in total sales revenue from November to December?  4737469  3949538  2637537  6966816	1/1 point
	There are several possible queries that would arrive at the right answer, one of which is:  SELECT sku,  sum(case when extract(month from saledate)=11 then amt end) as November,  sum(case when extract(month from saledate)=12 then amt end) as December,  December-November AS sales_bump  FROM trnsact  WHERE stype='P'  GROUP BY sku  ORDER BY sales_bump DESC;	
5.	What vendor has the greatest number of distinct skus in the transaction table that do not exist in the skstinfo table? (Remember that vendors are listed as distinct numbers in our data set).  5511283  3313116  5715232  9514659	1/1 point
	There are several possible queries that would arrive at the right answer, one of which is:  SELECT count(DISTINCT t.sku) as num_skus, si.vendor  FROM trnsact t  LEFT JOIN skstinfo s  ON t.sku=s.sku AND t.store=s.store  JOIN skuinfo si ON t.sku=si.sku  WHERE s.sku IS NULL  GROUP BY si.vendor  ORDER BY num_skus DESC;	
6.	What is the brand of the sku with the greatest standard deviation in sprice? Only examine skus which have been part of over 100 transactions.  Clinique  Vanity F  Hart Sch  Polo Fas  Correct  There are several possible ways you could write the query to arrive at the correct answer, including with a	1/1 point

 $SELECT\ DISTINCT\ top 10 skus. sku,\ top 10 skus. sprice\_stdev,\ top 10 skus. num\_transactions,\ si. style,\ si. color,\ si. size,$ 

si.packsize, si.vendor, si.brand FROM (SELECT TOP 1 sku, STDDEV\_POP(sprice) AS sprice\_stdev, count(sprice) AS num\_transactions FROM trnsact WHERE stype='P' GROUP BY sku HAVING num\_transactions > 100 ORDER BY sprice\_stdev DESC) AS top10skus JOIN skuinfo si ON top10skus.sku = si.sku ORDER BY top10skus.sprice\_stdev DESC; Or without a subquery, such as this: SELECT TOP 1 t.sku, STDDEV\_POP(t.sprice) AS sprice\_stdev, count(t.sprice) AS num\_transactions, si.style, si.color, si.size, si.packsize, si.vendor, si.brand FROM trnsact t JOIN skuinfo si ON t.sku = si.sku WHERE stype='P' GROUP BY t.sku, si.style, si.color, si.size, si.packsize, si.vendor, si.brand HAVING num\_transactions > 100 ORDER BY sprice\_stdev DESC; 7. What is the city and state of the store which had the greatest increase in average daily revenue (as defined in Teradata Week 5 Exercise Guide) from November to December? McAllen, TX Tucson, AZ Metairie, LA Little Rock, AK / Correct There are several possible queries that would arrive at the right answer, one of which is: SELECT s.city, s.state, t.store, SUM(case WHEN EXTRACT(MONTH from saledate) =11 then amt END) as November, SUM(case WHEN EXTRACT(MONTH from saledate) =12 then amt END) as December, COUNT(DISTINCT (case WHEN EXTRACT(MONTH from saledate) =11 then saledate END)) as Nov\_numdays, COUNT(DISTINCT (case WHEN EXTRACT(MONTH from saledate) =12 then saledate END)) as Dec\_numdays, (December/Dec\_numdays)-(November/Nov\_numdays) AS dip FROM trnsact t JOIN strinfo s ON t.store=s.store WHERE t.stype='P' AND t.store | | EXTRACT(YEAR from t.saledate) | | EXTRACT(MONTH from t.saledate) IN (SELECT store||EXTRACT(YEAR from saledate)||EXTRACT(MONTH from saledate) FROM trnsact GROUP BY store, EXTRACT(YEAR from saledate), EXTRACT(MONTH from saledate) HAVING COUNT(DISTINCT saledate)>= 20) GROUP BY s.city, s.state, t.store ORDER BY dip DESC; 8. Compare the average daily revenue (as defined in Teradata Week 5 Exercise Guide) of the store with the highest

6. Compare the average daily revenue (as defined in Teradata Week 5 Exercise Guide) of the store with the highest msa\_income and the store with the lowest median msa\_income (according to the msa\_income field). In what city and state were these two stores, and which store had a higher average daily revenue?

The store with the highest median msa\_income was in Littleton, CO. It had a higher average daily revenue than

+1-	e store with the lowest median msa_income, which was in Cincinnati, OH.
_	ne store with the highest median msa_income was in Spanish Fort, AL. It had a lower average daily revenue Ian the store with the lowest median msa_income, which was in McAllen, TX.
	ne store with the highest median msa_income was in Cincinnati, OH. It had a lower average daily revenue than se store with the lowest median msa_income, which was in Littleton, CO.
	ne store with the highest median msa_income was in McAllen, TX. It had a higher average daily revenue than se store with the lowest median msa_income, which was in Spanish Fort, AL.
~	Correct
	There are several possible queries that would arrive at the right answer, one of which is:
	SELECT SUM(store_rev. tot_sales)/SUM(store_rev.numdays) AS daily_average, store_rev.msa_income as med_income, store_rev.city, store_rev.state
	FROM (SELECT COUNT (DISTINCT t.saledate) as numdays, EXTRACT(YEAR from t.saledate) as s_year, EXTRACT(MONTH from t.saledate) as s_month, t.store, sum(t.amt) as tot_sales, CASE when extract(year from t.saledate) = 8 then 'exclude'
	END as exclude_flag, m.msa_income, s.city, s.state
	FROM trnsact t JOIN store_msa m
	ON m.store=t.store  OIN strinfo s
	ON t.store=s.store
	WHERE t.stype = 'P' AND exclude_flag IS NULL  CROLLE BY a year a month t-store on man income a situ a state.
	GROUP BY s_year, s_month, t.store, m.msa_income, s.city, s.state
	HAVING numdays >= 20) as store_rev
	WHERE store_rev.msa_income IN ((SELECT MAX(msa_income) FROM store_msa),(SELECT MIN(msa_income) FROM store_msa))
betwe	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-low'.
betwe high!, averag	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes
betwe high!, averag	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?
betwee high', average m	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  Wed-low
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  Wed-low  Wed-high
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  ed-high gh
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  ed-high gh  Correct  There are several possible queries that would arrive at the right answer, one of which is:
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  ed-high gh  **Correct** There are several possible queries that would arrive at the right answer, one of which is:  SELECT SUM(revenue_per_store.revenue)/SUM(numdays) AS avg_group_revenue,
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  ed-high gh  Correct  There are several possible queries that would arrive at the right answer, one of which is:
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  ed-high gh  **Correct** There are several possible queries that would arrive at the right answer, one of which is:  SELECT SUM(revenue_per_store.revenue)/SUM(numdays) AS avg_group_revenue,
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  ed-high  gh  Correct  There are several possible queries that would arrive at the right answer, one of which is:  SELECT SUM(revenue_per_store.revenue)/SUM(numdays) AS avg_group_revenue,  CASE WHEN revenue_per_store.msa_income BETWEEN 1 AND 20000 THEN 'low'
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  ed-high  gh  Correct  There are several possible queries that would arrive at the right answer, one of which is:  SELECT SUM(revenue_per_store.revenue)/SUM(numdays) AS avg_group_revenue,  CASE WHEN revenue_per_store.msa_income BETWEEN 1 AND 20000 THEN 'low'  WHEN revenue_per_store.msa_income BETWEEN 20001 AND 30000 THEN 'med-low'
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  ed-high  gh  Correct  There are several possible queries that would arrive at the right answer, one of which is:  SELECT SUM(revenue_per_store.revenue)/SUM(numdays) AS avg_group_revenue,  CASE WHEN revenue_per_store.msa_income BETWEEN 1 AND 20000 THEN 'low'  WHEN revenue_per_store.msa_income BETWEEN 20001 AND 30000 THEN 'med-low'  WHEN revenue_per_store.msa_income BETWEEN 30001 AND 40000 THEN 'med-high'
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  **Med-low**  **Correct**  There are several possible queries that would arrive at the right answer, one of which is:  **SELECT SUM(revenue_per_store.revenue)/SUM(numdays) AS avg_group_revenue,  **CASE WHEN revenue_per_store.msa_income BETWEEN 1 AND 20000 THEN 'low'  WHEN revenue_per_store.msa_income BETWEEN 30001 AND 30000 THEN 'med-low'  WHEN revenue_per_store.msa_income BETWEEN 30001 AND 40000 THEN 'med-high'  WHEN revenue_per_store.msa_income BETWEEN 40001 AND 60000 THEN 'high'
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest go daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  ed-high gh  Correct  There are several possible queries that would arrive at the right answer, one of which is:  SELECT SUM(revenue_per_store.revenue)/SUM(numdays) AS avg_group_revenue,  CASE WHEN revenue_per_store.msa_income BETWEEN 1 AND 20000 THEN 'low'  WHEN revenue_per_store.msa_income BETWEEN 30001 AND 30000 THEN 'med-low'  WHEN revenue_per_store.msa_income BETWEEN 30001 AND 40000 THEN 'med-high'  WHEN revenue_per_store.msa_income BETWEEN 40001 AND 60000 THEN 'high'  END as income_group
betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  ed-high gh  Correct  There are several possible queries that would arrive at the right answer, one of which is:  SELECT SUM(revenue_per_store.revenue)/SUM(numdays) AS avg_group_revenue,  CASE WHEN revenue_per_store.msa_income BETWEEN 1 AND 20000 THEN 'low'  WHEN revenue_per_store.msa_income BETWEEN 30001 AND 30000 THEN 'med-low'  WHEN revenue_per_store.msa_income BETWEEN 30001 AND 40000 THEN 'med-high'  WHEN revenue_per_store.msa_income BETWEEN 40001 AND 60000 THEN 'high'  END as income_group  FROM (SELECT m.msa_income, t.store,
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betwee high', average of modern moder	the msa_income groups up so that msa_incomes between 1 and 20,000 are labeled 'low', msa_incomes en 20,001 and 30,000 are labeled 'med-low', msa_incomes between 30,001 and 40,000 are labeled 'med-and msa_incomes between 40,001 and 60,000 are labeled 'high'. Which of these groups has the highest ge daily revenue (as defined in Teradata Week 5 Exercise Guide) per store?  ed-low  w  wed-high gh  **Correct** There are several possible queries that would arrive at the right answer, one of which is:  SELECT SUM(revenue_per_store.revenue)/SUM(numdays) AS avg_group_revenue,  CASE WHEN revenue_per_store.msa_income BETWEEN 1 AND 20000 THEN 'low'  WHEN revenue_per_store.msa_income BETWEEN 30001 AND 30000 THEN 'med-low'  WHEN revenue_per_store.msa_income BETWEEN 30001 AND 40000 THEN 'med-ligh'  WHEN revenue_per_store.msa_income BETWEEN 40001 AND 60000 THEN 'high'  END as income_group  FROM (SELECT m.msa_income, t.store,  CASE when extract(year from t.saledate) = 2005 AND extract(month from t.saledate) = 8 then 'exclude'  END as exclude_flag, SUM(t.amt) AS revenue, COUNT(DISTINCT t.saledate) as numdays, EXTRACT(MONTH from t.saledate) as monthiD

FROM trnsact

	HAVING COUNT(DISTINCT saledate)>= 20)	
	GROUP BY t.store, m.msa_income, monthID, exclude_flag) AS revenue_per_store	
	GROUP BY income_group	
	ORDER BY avg_group_revenue;	
ms 200 lab sto	ride stores up so that stores with msa populations between 1 and 100,000 are labeled 'very small', stores with a populations between 100,001 and 200,000 are labeled 'small', stores with msa populations between 0,001 and 500,000 are labeled 'med_small', stores with msa populations between 500,001 and 1,000,000 are led 'med_large', stores with msa populations between 1,000,001 and 5,000,000 are labeled "large", and res with msa_population greater than 5,000,000 are labeled "very large". What is the average daily revenue defined in Teradata Week 5 Exercise Guide) for a store in a "very large" population msa?	1/1 point
	\$25,452	
0	\$16,355	
	\$24,341	
	424,041	
	✓ Correct	
	There are several possible queries that would arrive at the right answer, one of which is:	
	SELECT SUM(store_rev. tot_sales)/SUM(store_rev.numdays) AS daily_avg, CASE WHEN store_rev.msa_pop BETWEEN 1 AND 100000 THEN 'very small'	
	WHEN store_rev.msa_pop BETWEEN 100001 AND 200000 THEN 'small'	
	WHEN store_rev.msa_pop BETWEEN 200001 AND 500000 THEN 'med_small'	
	WHEN store_rev.msa_pop BETWEEN 500001 AND 1000000 THEN 'med_large'	
	WHEN store_rev.msa_pop BETWEEN 1000001 AND 5000000 THEN 'large'	
	WHEN store_rev.msa_pop > 5000000 then 'very large'	
	END as pop_group	
	FROM(SELECT COUNT (DISTINCT t.saledate) as numdays, EXTRACT(YEAR from t.saledate) as s_year, EXTRACT(MONTH from t.saledate) as s_month, t.store, sum(t.amt) AS tot_sales,	
	CASE when extract(year from t.saledate) = 2005 AND extract(month from t.saledate) = 8 then 'exclude'	
	END as exclude_flag, m.msa_pop	
	FROM trnsact t JOIN store_msa m	
	ON m.store=t.store	
	WHERE t.stype = 'P' AND exclude_flag IS NULL	
	GROUP BY s_year, s_month, t.store, m.msa_pop	
	HAVING numdays >= 20) as store_rev	
	GROUP BY pop_group	
	ORDER BY daily_avg;	

SELECTIC store is city is state indicated summare when extract(month from saledate)=11 then amt end) as

November. COUNT(DISTINCT (case WHEN EXTRACT(MONTH from saledate) ='11' then saledate END)) as Nov\_numdays, sum(case when extract(month from saledate)=12 then amt end) as December, COUNT(DISTINCT (case WHEN EXTRACT(MONTH from saledate) ='12' then saledate END)) as Dec\_numdays, ((December/Dec\_numdays)-(November/Nov\_numdays))/(November/Nov\_numdays)\*100 AS bump FROM trnsact t JOIN strinfo s ON t.store=s.store JOIN skuinfo si ON t.sku=si.sku JOIN deptinfo d ON si.dept=d.dept WHERE t.stype='P' and t.store||EXTRACT(YEAR from t.saledate)||EXTRACT(MONTH from t.saledate)|IN (SELECT store||EXTRACT(YEAR from saledate)||EXTRACT(MONTH from saledate) FROM trnsact GROUP BY store, EXTRACT(YEAR from saledate), EXTRACT(MONTH from saledate) HAVING COUNT(DISTINCT saledate)>= 20) GROUP BY s.store, s.city, s.state, d.deptdesc HAVING November > 1000 AND December > 1000 ORDER BY bump DESC; 12. Which department within a particular store had the greatest decrease in average daily sales revenue from August to September, and in what city and state was that store located? Clinique department, Cincinnati, OH O Polomen department, Greenville, SC Clinique department, Louisville, KY O Polomen department, Knoxville, TN / Correct There are several possible queries that would arrive at the right answer, one of which is: SELECT s.city, s.state, d.deptdesc, t.store, CASE when extract(year from t.saledate) = 2005 AND extract(month from t.saledate) = 8 then 'exclude' END as exclude flag. SUM(case WHEN EXTRACT(MONTH from saledate) ='8' THEN amt END) as August, SUM(case WHEN EXTRACT(MONTH from saledate) ='9' THEN amt END) as September, COUNT(DISTINCT (case WHEN EXTRACT(MONTH from saledate) ='8' then saledate END)) as Aug\_numdays, COUNT(DISTINCT (case WHEN EXTRACT(MONTH from saledate) ='9' then saledate END)) as Sept\_numdays, (August/Aug\_numdays)-(September/Sept\_numdays) AS dip FROM trnsact t JOIN strinfo s ON t.store=s.store JOIN skuinfo si ON t.sku=si.sku JOIN deptinfo d ON si.dept=d.dept WHERE t.stype='P' AND exclude\_flag IS NULL AND t.store||EXTRACT(YEAR from t.saledate) | | EXTRACT(MONTH from t.saledate) IN (SELECT store | | EXTRACT(YEAR from saledate) | EXTRACT(MONTH from saledate) FROM trnsact GROUP BY store, EXTRACT(YEAR from saledate), EXTRACT(MONTH from saledate) HAVING COUNT(DISTINCT saledate)>= 20) GROUP BY s.city, s.state, d.deptdesc, t.store, exclude\_flag ORDER BY dip DESC;

13. Identify which department, in which city and state of what store, had the greatest DECREASE in the <u>number of items sold</u> from August to September. How many fewer items did that department sell in September compared to August?

1/1 point

	$\cup$	1116	ne k Lauren department in Chanotte, NC Sold 5,000 lewer items	
	•	The	he Clinique department in Louisville, KY sold 13,491 fewer items	
	$\circ$	The	he Clinique department in Greenville, SC sold 18,553 fewer items	
	0	The	he R Lauren department in Toledo, OH sold 12,009 fewer items	
	~	/	<b>Correct</b> There are several possible queries that could have given you the right answer, one of which is:	
			SELECT s.city, s.state, d.deptdesc, t.store,	
			CASE when extract(year from t.saledate) = 2005 AND extract(month from t.saledate) = 8 then 'exclude'	
			END as exclude_flag,	
			SUM(case WHEN EXTRACT(MONTH from saledate) = 8 then t.quantity END) as August,	
			SUM(case WHEN EXTRACT(MONTH from saledate) = 9 then t.quantity END) as September, August-September dip	r AS
			FROM trnsact t JOIN strinfo s	
			ON t.store=s.store JOIN skuinfo si	
			ON t.sku=si.sku JOIN deptinfo d	
			ON si.dept=d.dept	
			WHERE t.stype='P' AND exclude_flag IS NULL AND	
			t.store  EXTRACT(YEAR from t.saledate)  EXTRACT(MONTH from t.saledate) IN	
			(SELECT store     EXTRACT(YEAR from saledate)     EXTRACT(MONTH from saledate)	
			FROM trnsact	
			GROUP BY store, EXTRACT(YEAR from saledate), EXTRACT(MONTH from saledate)	
			HAVING COUNT(DISTINCT saledate)>= 20)	
			GROUP BY s.city, s.state, d.deptdesc, t.store, exclude_flag	
			ORDER BY dip DESC;	
14.	Exer	cise nue	such store, determine the month with the minimum average daily revenue (as defined in Teradata Week 5 se Guide) . For each of the twelve months of the year, count how many stores' minimum average daily use was in that month. During which month(s) did over 100 stores have their minimum average daily use?	1/1 point
	0	Aug	ugust and September	
	0	Jan	nuary and September	
	0.	Jan	nuary and August	
		Aug	ugust only	
		,	Correct	
	•		There are several possible queries that would arrive at the right answer, one of which is:	
			SELECT CASE when max_month_table.month_num = 1 then 'January' when max_month_table.month_num = then 'February' when max_month_table.month_num = 3 then 'March' when max_month_table.month_num = then 'April' when max_month_table.month_num = 5 then 'May' when max_month_table.month_num = 6 then 'June' when max_month_table.month_num = 7 then 'July' when max_month_table.month_num = 8 then 'Aug' when max_month_table.month_num = 9 then 'September' when max_month_table.month_num = 10 then 'October' when max_month_table.month_num = 11 then 'November' when max_month_table.month_num = then 'December' END, COUNT(*)	= 4 n ust'
			FROM (SELECT DISTINCT extract(year from saledate) as year_num, extract(month from saledate) as month_n CASE when extract(year from saledate) = 2005 AND extract(month from saledate) = 8 then 'exclude' END as exclude_flag, store, SUM(amt) AS tot_sales, COUNT (DISTINCT saledate) as numdays, tot_sales/numdays as dailyrev, ROW_NUMBER () over (PARTITION BY store ORDER BY dailyrev DESC) AS month_rank	um,
			FROM trnsact	
			WHERE stype='P' AND exclude_flag IS NULL AND store  EXTRACT(YEAR from saledate)  EXTRACT(MONTH fr saledate)  EXTRACT(YEAR from saledate)  EXTRACT(MONTH from saledate)	om
			FROM trnsact	
			GROUP BY store, EXTRACT(YEAR from saledate), EXTRACT(MONTH from saledate)	

Н	AVING COUNT(DISTINCT saledate)>= 20)
GI	ROUP BY store, month_num, year_num
H	AVING numdays>=20 QUALIFY month_rank=12) as max_month_table
GI	ROUP BY max_month_table.month_num
Ol	RDER BY max_month_table.month_num;

15. Write a query that determines the month in which each store had its maximum number of sku units returned. During which month did the greatest number of stores have their maximum number of sku units returned? 1 / 1 point

•	December
0	September
0	March
0	January

## ✓ Correct

There are several possible queries that would arrive at the right answer, one of which is:

SELECT CASE when max\_month\_table.month\_num = 1 then 'January' when max\_month\_table.month\_num = 2 then 'February' when max\_month\_table.month\_num = 3 then 'March' when max\_month\_table.month\_num = 4 then 'April' when max\_month\_table.month\_num = 5 then 'May' when max\_month\_table.month\_num = 6 then 'June' when max\_month\_table.month\_num = 8 then 'August' when max\_month\_table.month\_num = 9 then 'September' when max\_month\_table.month\_num = 10 then 'October' when max\_month\_table.month\_num = 11 then 'November' when max\_month\_table.month\_num = 12 then 'December' END, COUNT(\*)

FROM (SELECT DISTINCT extract(year from saledate) as year\_num, extract(month from saledate) as month\_num, CASE when extract(year from saledate) = 2004 AND extract(month from saledate) = 8 then 'exclude' END as exclude\_flag, store, SUM(quantity) AS tot\_returns, ROW\_NUMBER () over (PARTITION BY store ORDER BY tot\_returns DESC) AS month\_rank

FROM trnsact

WHERE stype='R' AND exclude\_flag IS NULL AND store||EXTRACT(YEAR from saledate)||EXTRACT(MONTH from saledate)||EXTRACT(YEAR from saledate)||EXTRACT(MONTH f

FROM trnsact

GROUP BY store, EXTRACT(YEAR from saledate), EXTRACT(MONTH from saledate)

HAVING COUNT(DISTINCT saledate)>= 20)

GROUP BY store, month\_num, year\_num QUALIFY month\_rank=1) as max\_month\_table

GROUP BY max\_month\_table.month\_num

ORDER BY max\_month\_table.month\_num