Chapter 7 Questions Continued

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31. Write a query to display the employee number, last name, first name, salary “from” date, salary end date, and salary amount for employees 83731, 83745, and 84039. Sort the output by employee number and salary “from” date.

Answer:

SELECT e.emp\_num,e.emp\_lname,e.emp\_fname,s.sal\_from,s.sal\_end,s.sal\_amount

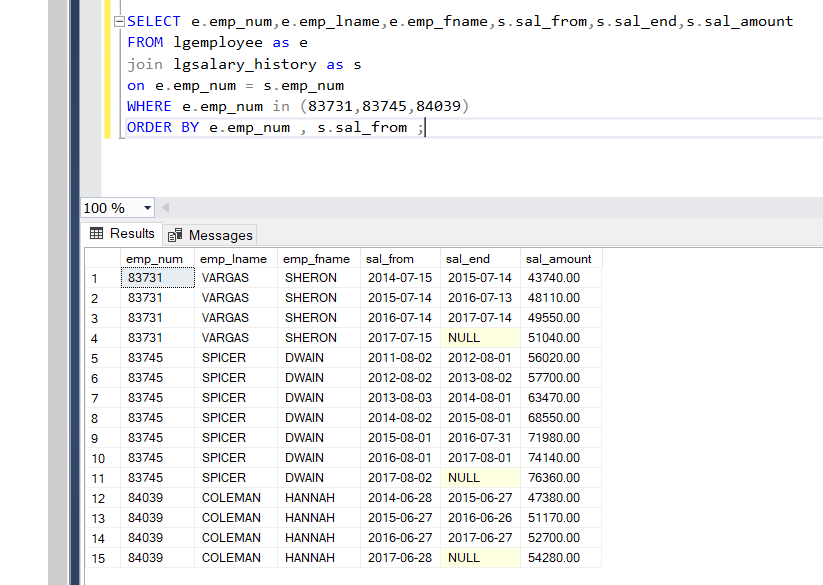
FROM lgemployee as e

join lgsalary\_history as s

on e.emp\_num = s.emp\_num

WHERE e.emp\_num in (83731,83745,84039)

ORDER BY e.emp\_num , s.sal\_from ;



32. Write a query to display the first name, last name, street, city, state, and zip code of any customers who purchased a foresters best brand top coat between July 15, 2015 and July 31, 2015. If a customer purchased more than one such product, display the customers information only once in the output. Sort the output by state, last name, and then the first name.

Answer:

NOTE: Used Data as per the instruction through canvas

SELECT DISTINCT cust\_fname,cust\_lname,cust\_street,cust\_city,cust\_state,cust\_zip

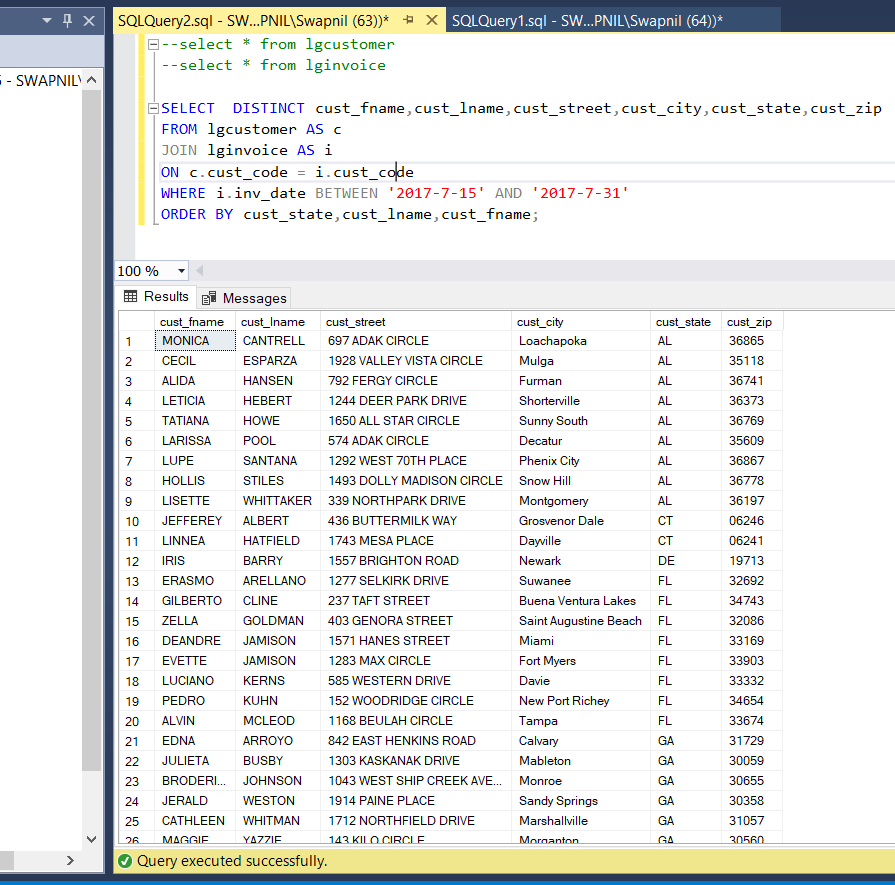
FROM lgcustomer AS c

JOIN lginvoice AS i

ON c.cust\_code = i.cust\_code

WHERE i.inv\_date BETWEEN '2017-7-15' AND '2017-7-31'

ORDER BY cust\_state,cust\_lname,cust\_fname;



33. Write a query to display the employee number, last name, email, title and department name of each employee whose job title ends with the word associate. Sort the output by department name and employee title.

Answer:

SELECT e.emp\_num,e.emp\_lname,e.emp\_email,e.emp\_title,d.dept\_name

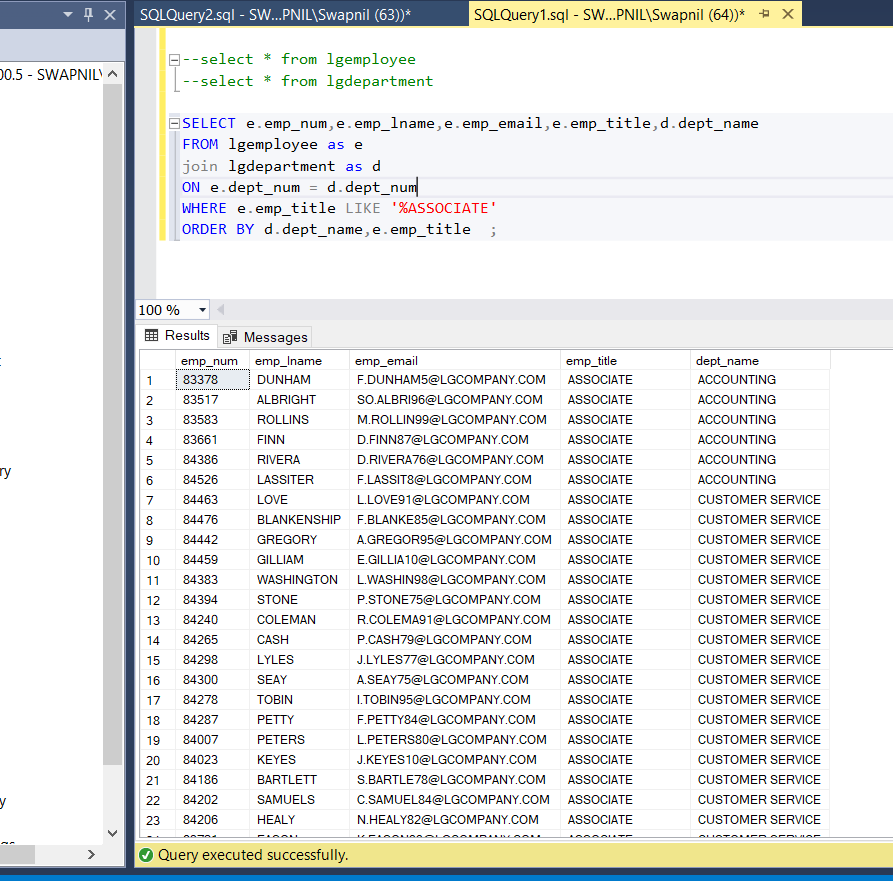
FROM lgemployee as e

join lgdepartment as d

ON e.dept\_num = d.dept\_num

WHERE e.emp\_title LIKE '%ASSOCIATE'

ORDER BY d.dept\_name,e.emp\_title ;



34. Write a query to display a brand name and the number of products of that brand that are in the database. Sort the output by brand name.

Answer:

SELECT b.brand\_name , COUNT(p.brand\_id) AS NUMPRODUCTS

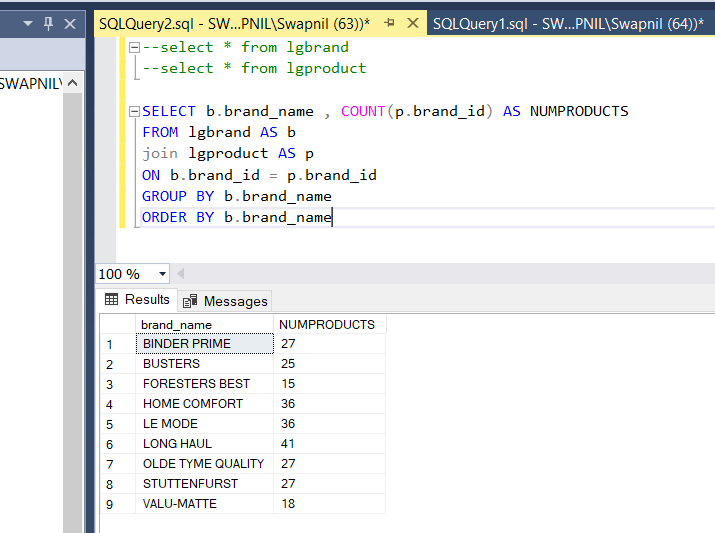
FROM lgbrand AS b

join lgproduct AS p

ON b.brand\_id = p.brand\_id

GROUP BY b.brand\_name

ORDER BY b.brand\_name



35. Write a query to display the number of products in each category that have a water base, sorted by category.

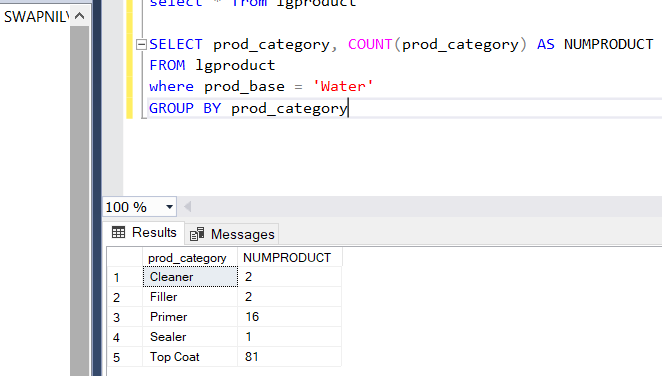
Answer:

SELECT prod\_category, COUNT(prod\_category) AS NUMPRODUCT

FROM lgproduct

where prod\_base = 'Water'

GROUP BY prod\_category



36. Write a query to display the number of products within each base and type combination, sorted by base and then by type.

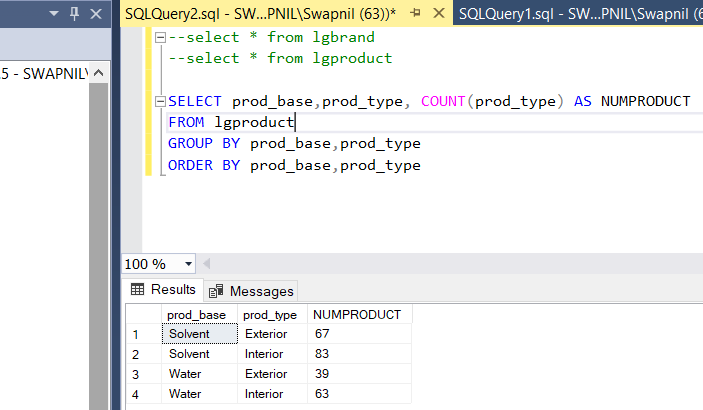
Answer:

SELECT prod\_base,prod\_type, COUNT(prod\_type) AS NUMPRODUCT

FROM lgproduct

GROUP BY prod\_base,prod\_type

ORDER BY prod\_base,prod\_type



37. Write a query to display the total inventory- that is the sum of all products on hand for each brand ID. Sort the output by brand ID in descending order.

Answer:

SELECT b.brand\_id , SUM(p.prod\_qoh) AS TOTALINVENTORY

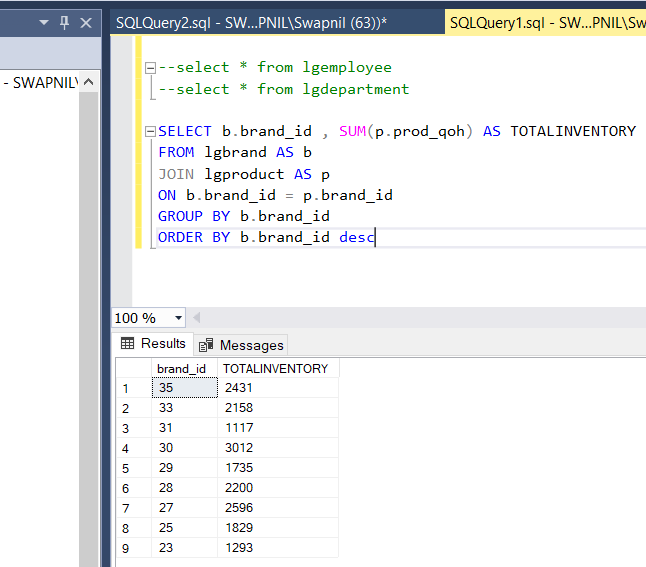
FROM lgbrand AS b

JOIN lgproduct AS p

ON b.brand\_id = p.brand\_id

GROUP BY b.brand\_id

ORDER BY b.brand\_id desc



38. Write a query to display the brand id, brand name, and average price of products of each brand. Sort the output by brand name. Results are shown with the average price rounded to two decimal places.

Answer:

SELECT b.brand\_id,b.brand\_name, ROUND(AVG(p.prod\_price),2) AS AVGPRICE

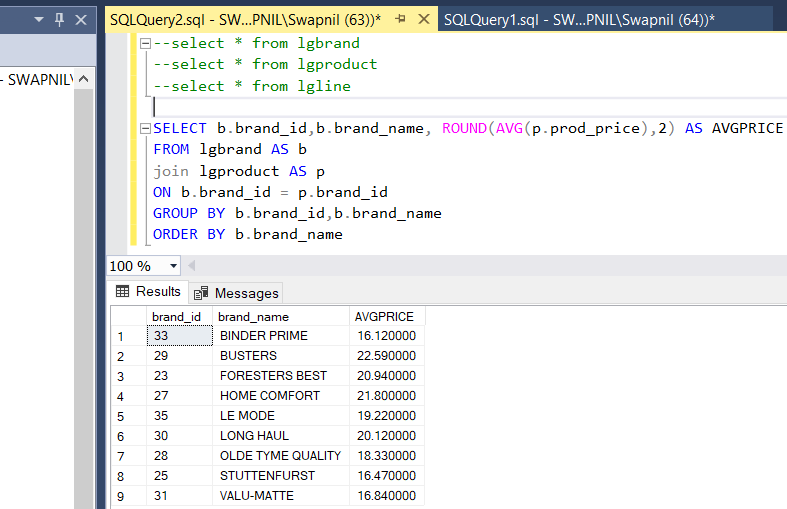
FROM lgbrand AS b

join lgproduct AS p

ON b.brand\_id = p.brand\_id

GROUP BY b.brand\_id,b.brand\_name

ORDER BY b.brand\_name



39. Write a query to display the department number and most recent employee hire date for each department. Sort the results by department number.

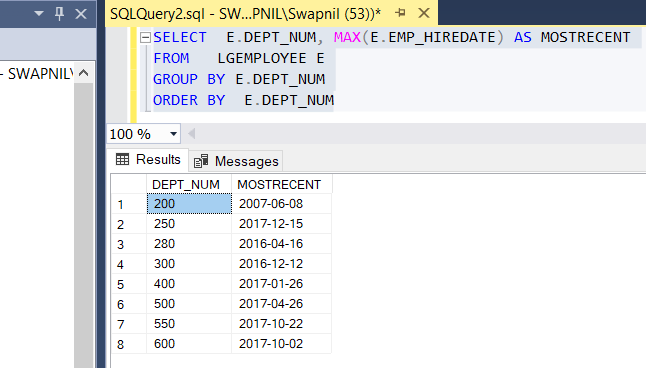
Answer:

SELECT E.DEPT\_NUM, MAX(E.EMP\_HIREDATE) AS MOSTRECENT

FROM LGEMPLOYEE E

GROUP BY E.DEPT\_NUM

ORDER BY E.DEPT\_NUM



40. Write a query to display the employee number, first name, last name, and largest salary amount for each employee in department 200. Sort the output by largest salary in descending order.

Answer:

SELECT E.EMP\_NUM, E.EMP\_FNAME, E.EMP\_LNAME, MAX(S.SAL\_AMOUNT) AS 'LARGESTSALARY'

FROM LGEMPLOYEE E

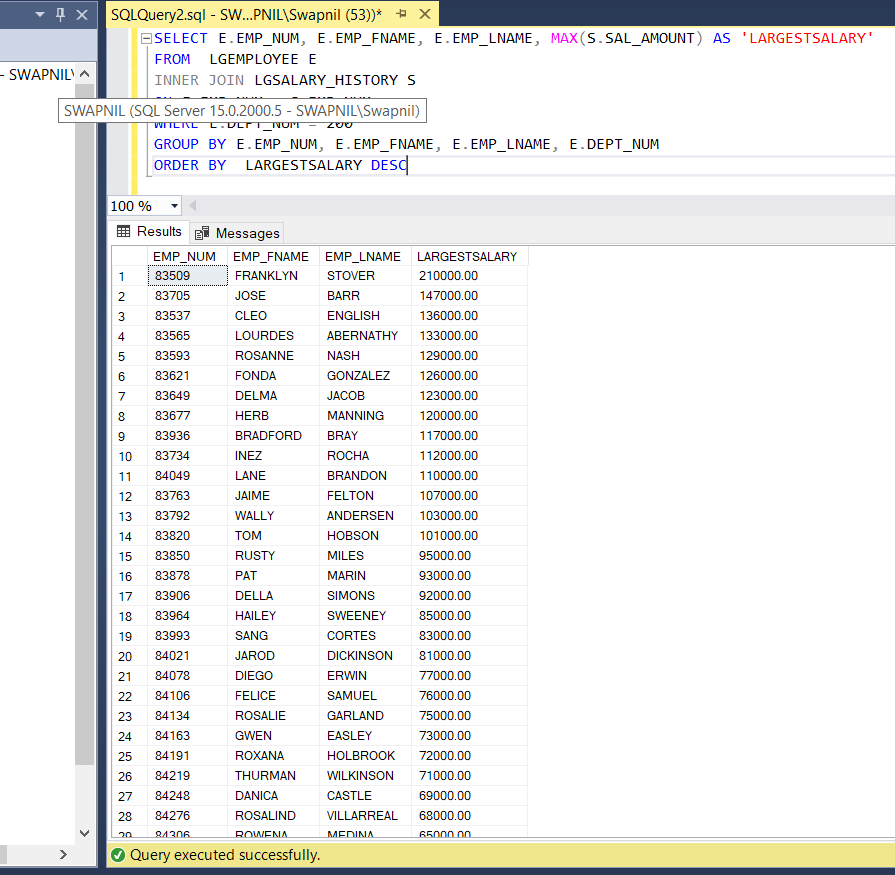
INNER JOIN LGSALARY\_HISTORY S

ON E.EMP\_NUM = S.EMP\_NUM

WHERE E.DEPT\_NUM = 200

GROUP BY E.EMP\_NUM, E.EMP\_FNAME, E.EMP\_LNAME, E.DEPT\_NUM

ORDER BY LARGESTSALARY DESC



41. Write a query to display the customer code, first name, last name, and sum of all invoice totals for customers with cumulative totals greater than $1500. Sort the output by the sum of invoice totals in descending order.

Answer:

SELECT l.cust\_code,l.cust\_fname,l.cust\_lname,SUM(i.inv\_total) AS TOTALINVOICES

FROM lgcustomer AS l

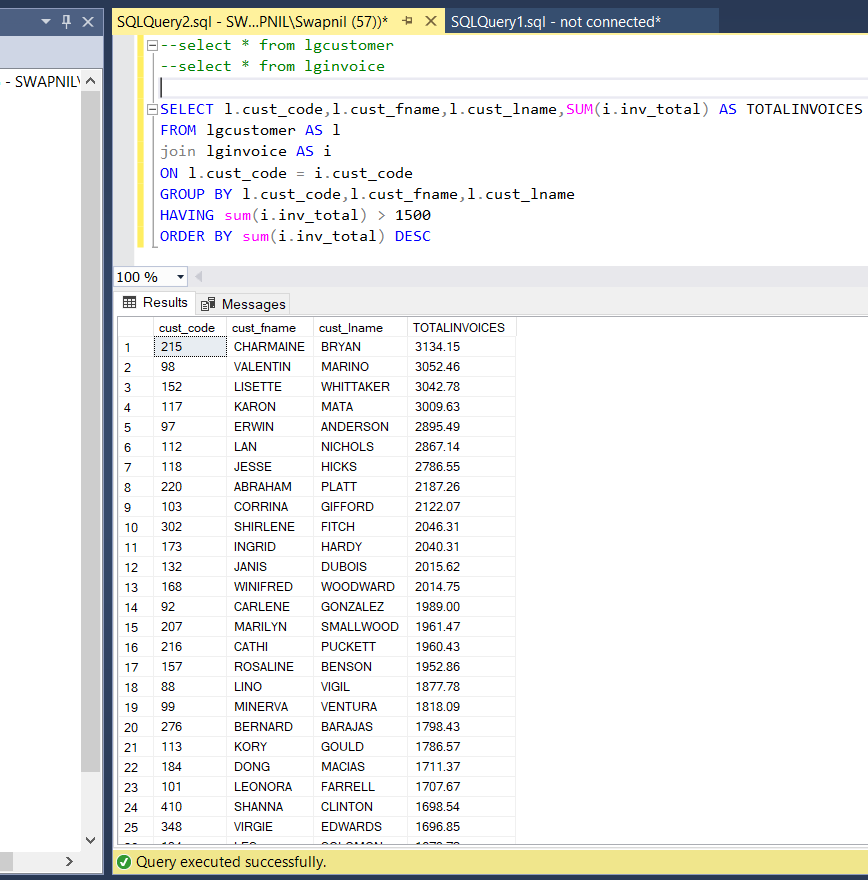
join lginvoice AS i

ON l.cust\_code = i.cust\_code

GROUP BY l.cust\_code,l.cust\_fname,l.cust\_lname

HAVING sum(i.inv\_total) > 1500

ORDER BY sum(i.inv\_total) DESC



42. Write a query to display the department number, department name, department phone number, employee number, and last name of each department manager. Sort the output by department name.

Answer:

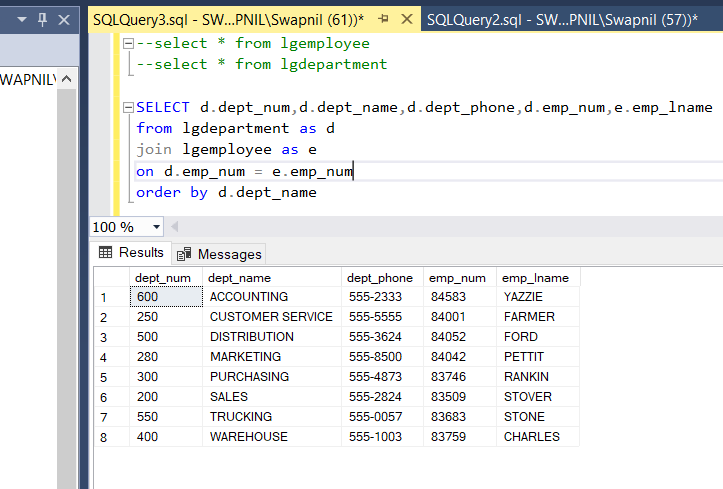
SELECT d.dept\_num,d.dept\_name,d.dept\_phone,d.emp\_num,e.emp\_lname

from lgdepartment as d

join lgemployee as e

on d.emp\_num = e.emp\_num

order by d.dept\_name



43. Write a query to display the vendor id, vendor name, brand name, and number of products each brand supplied by each vendor. Sort the output by vendor name and then by brand name.

Answer:

SELECT v.vend\_id,v.vend\_name,b.brand\_name,COUNT(p.prod\_sku) AS NUMPRODUCTS

FROM lgproduct AS p

join lgsupplies AS s

ON p.prod\_sku = s.prod\_sku

join lgbrand AS b

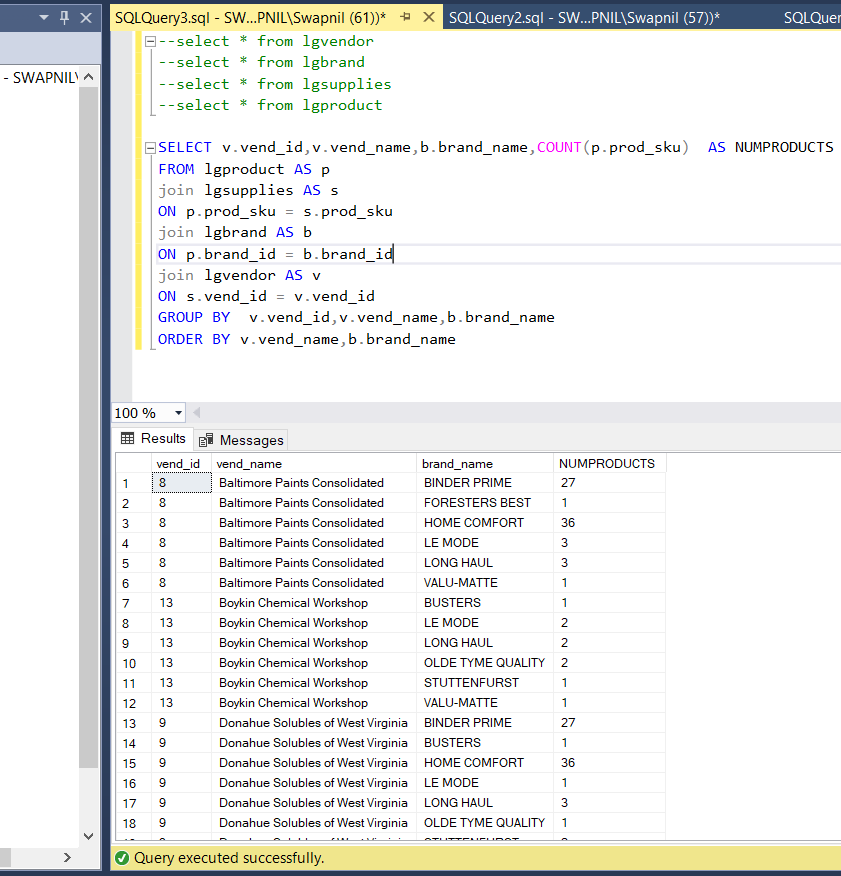
ON p.brand\_id = b.brand\_id

join lgvendor AS v

ON s.vend\_id = v.vend\_id

GROUP BY v.vend\_id,v.vend\_name,b.brand\_name

ORDER BY v.vend\_name,b.brand\_name



44. Write a query to display the employee number, last name, first name, and sum of invoice totals for all the employees who completed an invoice. Sort the output by employee last name and then first name.

Answer:

SELECT e.emp\_num,e.emp\_lname,e.emp\_fname,SUM(i.inv\_total) AS TOTALINVOICE

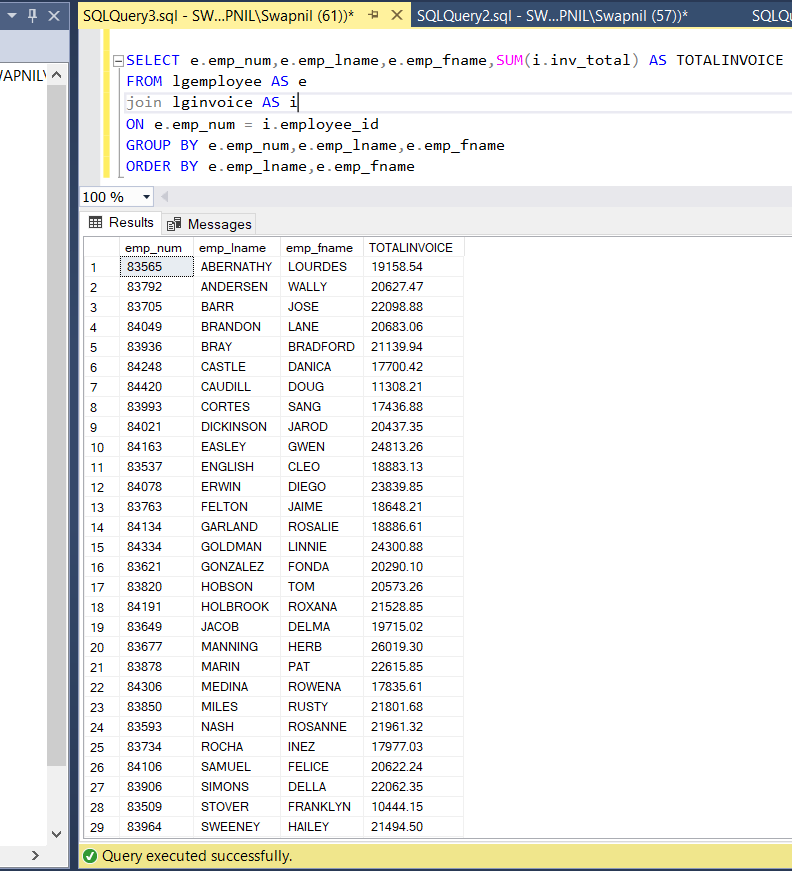
FROM lgemployee AS e

join lginvoice AS i

ON e.emp\_num = i.employee\_id

GROUP BY e.emp\_num,e.emp\_lname,e.emp\_fname

ORDER BY e.emp\_lname,e.emp\_fname



45. Write a query to display the largest average product price of any brand.

Answer:

SELECT TOP 1 AVG(p.prod\_price) AS [Largest Average]

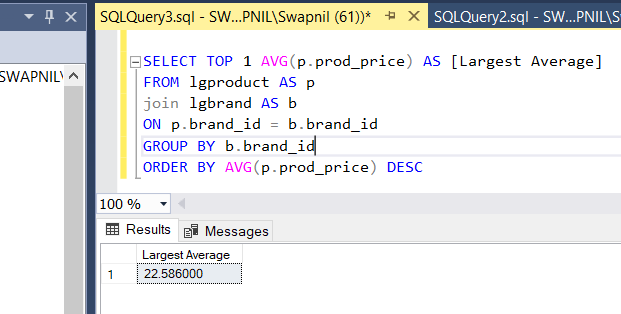
FROM lgproduct AS p

join lgbrand AS b

ON p.brand\_id = b.brand\_id

GROUP BY b.brand\_id

ORDER BY avg(p.prod\_price) DESC



46. Write a query to display the brand id, brand name, brand type, and average price of products for the brand that has the largest average product price.

Answer:

SELECT TOP 1 AVG(p.prod\_price) AS [Largest Average],b.brand\_id,b.brand\_name,b.brand\_type

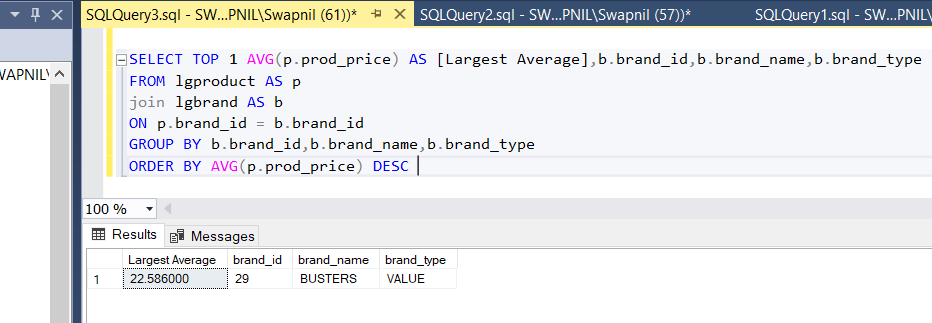
FROM lgproduct AS p

join lgbrand AS b

ON p.brand\_id = b.brand\_id

GROUP BY b.brand\_id,b.brand\_name,b.brand\_type

ORDER BY AVG(p.prod\_price) DESC



47. Write a query to display the manager name, department name, department phone number, employee name, customer name, invoice date, and invoice total for the department manager of the employee who made a sale to a customer whose last name Hagan on May 18, 2015.

Answer:

SELECT M.EMP\_FNAME, M.EMP\_LNAME, D.DEPT\_NAME, D.DEPT\_PHONE, E.EMP\_FNAME, E.EMP\_LNAME, C.CUST\_FNAME,C.CUST\_LNAME,I.INV\_DATE, I.INV\_TOTAL

FROM LGDEPARTMENT D, LGEMPLOYEE M, LGEMPLOYEE E, LGCUSTOMER C, LGINVOICE I

WHERE D.EMP\_NUM = M.EMP\_NUM

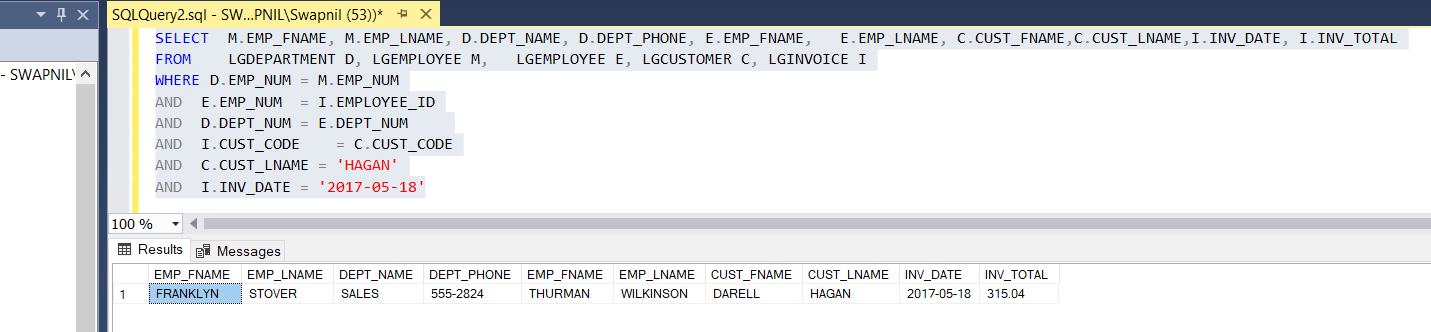
AND E.EMP\_NUM = I.EMPLOYEE\_ID

AND D.DEPT\_NUM = E.DEPT\_NUM

AND I.CUST\_CODE = C.CUST\_CODE

AND C.CUST\_LNAME = 'HAGAN'

AND I.INV\_DATE = '2017-05-18'



48. Write a query to display the current salary for each employee in department 300. Assume that only current employees are kept in the system, and therefore the most current salary for each employee is the entry in the salary history with a null and end date. Sort the output in descending order by salary amount.

Answer:

select e.emp\_num,e.emp\_lname,e.emp\_fname,s.sal\_amount

from lgemployee as e

join lgsalary\_history as s

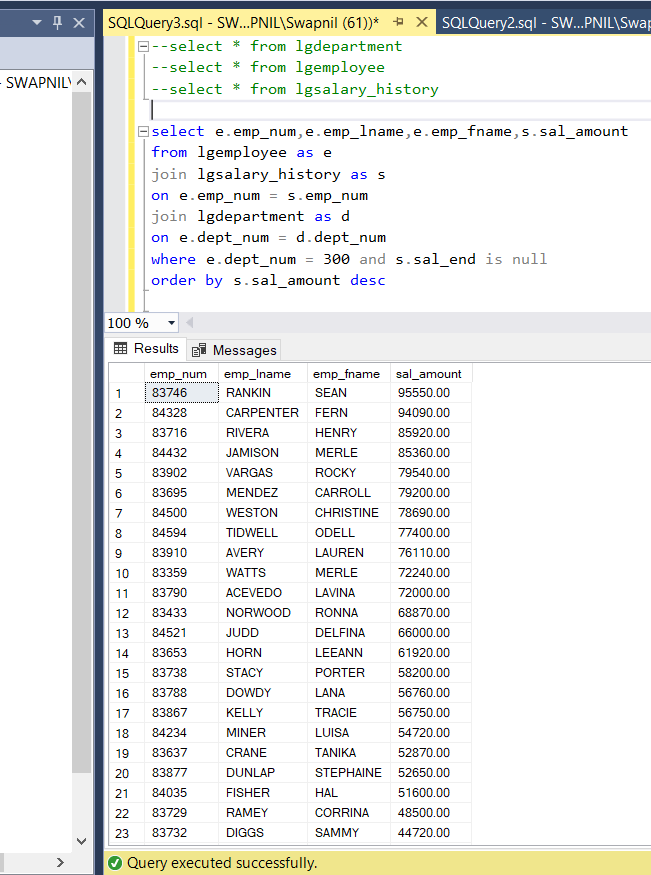
on e.emp\_num = s.emp\_num

join lgdepartment as d

on e.dept\_num = d.dept\_num

where e.dept\_num = 300 and s.sal\_end is null

order by s.sal\_amount desc



49. Write a query to display the starting salary for each employee. The starting salary would be the entry in the salary history with the oldest salary start date for each employee. Sort the output by employee number.

Answer:

select e.emp\_num,e.emp\_lname,e.emp\_fname,min(s.sal\_amount) AS Sal\_Amount

from lgemployee as e

join lgsalary\_history as s

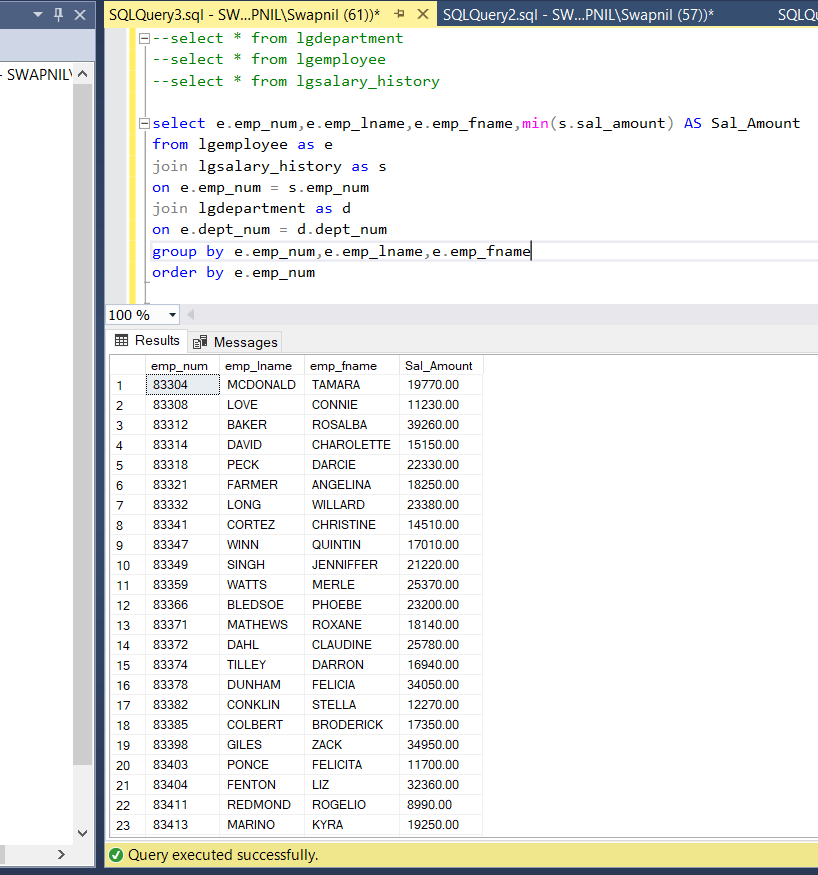
on e.emp\_num = s.emp\_num

join lgdepartment as d

on e.dept\_num = d.dept\_num

group by e.emp\_num,e.emp\_lname,e.emp\_fname

order by e.emp\_num



50. Write a query to display the invoice number, line numbers, product sku’s, product descriptions, and brand id for sales of sealer and top coat products of the same brand on the same invoice. Sort the results by invoice number in ascending order, first line number in ascending order, and then by second line number in descending order.

Answer:

SELECT C1.INV\_NUM AS INV\_NUM, C1.LINE\_NUM AS L1\_LINE\_NUM, C1.PROD\_SKU AS

P1\_PROD\_SKU, C1.PROD\_DESCRIPT AS P1\_PRODUCT\_DESCP, C2.LINE\_NUM AS

L2\_LINE\_NUM, C2.PROD\_SKU AS P1\_PROD\_SKU, C2.PROD\_DESCRIPT AS

P2\_PRODUCT\_DESCP, C1.BRAND\_ID AS BRAND\_ID

FROM ( SELECT L.INV\_NUM, L.LINE\_NUM, P.PROD\_SKU, P.PROD\_DESCRIPT, P.BRAND\_ID,

P.PROD\_CATEGORY

FROM LGLINE L, LGPRODUCT P

WHERE L.PROD\_SKU = P.PROD\_SKU AND P.PROD\_CATEGORY = 'SEALER') C1,

( SELECT L2.LINE\_NUM, P2.PROD\_SKU, P2.PROD\_DESCRIPT, P2.BRAND\_ID,

L2.INV\_NUM, P2.PROD\_CATEGORY

FROM LGLINE L2, LGPRODUCT P2

WHERE L2.PROD\_SKU = P2.PROD\_SKU AND P2.PROD\_CATEGORY = 'TOP COAT') C2

WHERE C1.INV\_NUM = C2.INV\_NUM

AND C1.BRAND\_ID = C2.BRAND\_ID

ORDER BY C1.INV\_NUM, C1.LINE\_NUM,C2.LINE\_NUM DESC;

