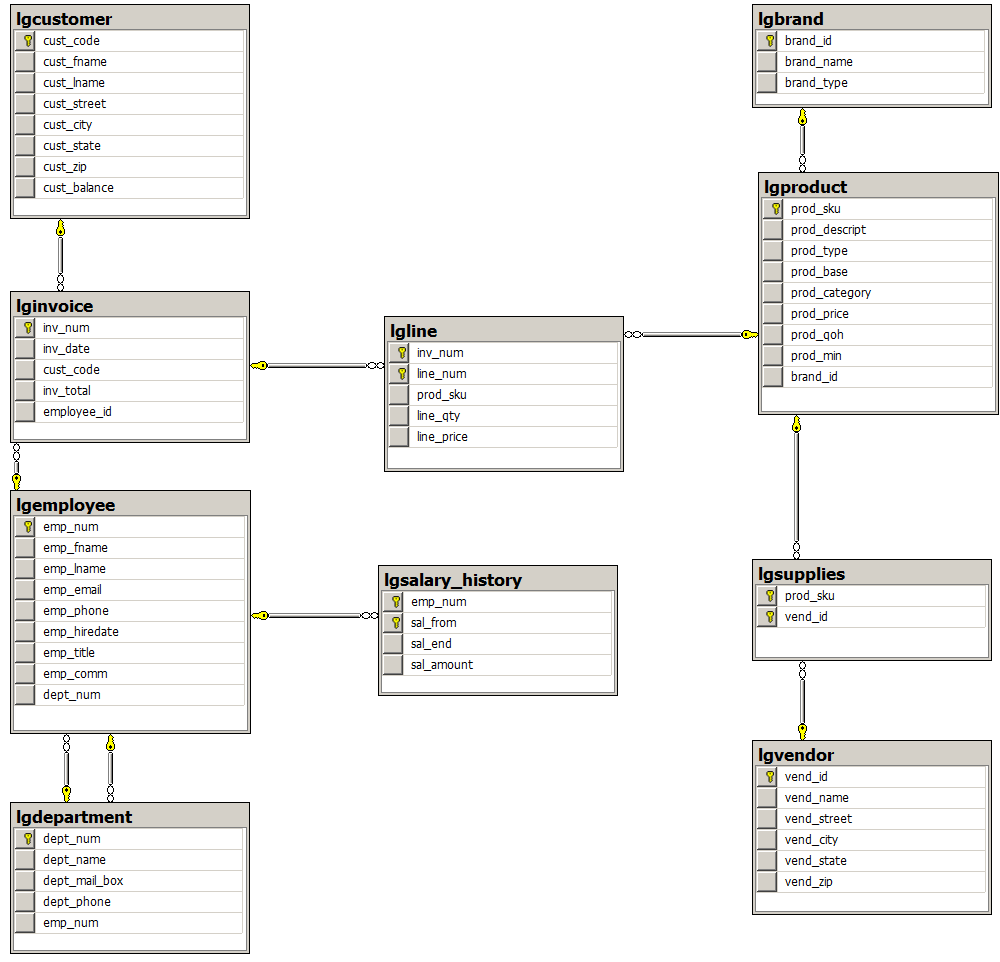
Benjamin Benoit, Cody Higdon, Allen Larmee, and Roby Pile

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CIS 310-02

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Dr. Guan

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**44. Write a query to display the eight departments in the LGDEPARTMENT table.**

SELECT \*

FROM LGDEPARTMENT;

**45. Write a query to display the SKU (stock keeping unit), description, type, base, category, and price for all products that have a PROD\_BASE of water and a PROD\_CATEGORY of sealer.**

SELECT PROD\_SKU, PROD\_DESCRIPT, PROD\_TYPE, PROD\_BASE, PROD\_CATEGORY, PROD\_PRICE

FROM LGPRODUCT

WHERE PROD\_BASE='Water' And PROD\_CATEGORY='Sealer';

**46. Write a query to display the first name, last name, and e-mail address of employees hired from January 1, 2003, to December 31, 2012. Sort the output by last name and then by first name.**

SELECT EMP\_FNAME, EMP\_LNAME, EMP\_EMAIL

FROM LGEMPLOYEE

WHERE EMP\_HIREDATE Between ‘1/1/2003’ And ‘12/31/2012’

ORDER BY EMP\_LNAME, EMP\_FNAME

**47. Write a query to display the first name, last name, phone number, title, and department number of employees who work in department 300 or have the title “CLERK I.” Sort the output by last name and then by first name.**

SELECT EMP\_FNAME, EMP\_LNAME, EMP\_PHONE, EMP\_TITLE, DEPT\_NUM

FROM LGEMPLOYEE

WHERE DEPT\_NUM=300 Or EMP\_TITLE='CLERK I'

ORDER BY EMP\_LNAME, EMP\_FNAME;

**48. 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.**

SELECT E.EMP\_NUM, E.EMP\_LNAME, E.EMP\_FNAME, S.SAL\_FROM, S.SAL\_END, S.SAL\_AMOUNT

FROM LGEMPLOYEE E INNER JOIN LGSALARY\_HISTORY S

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

WHERE E.EMP\_NUM = 83731 OR

E.EMP\_NUM = 83745 OR

E.EMP\_NUM = 84039

ORDER BY E.EMP\_NUM, S.SAL\_FROM

**49. Write a query to display the first name, last name, street, city, state, and zip code of any customer 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 customer’s information only once in the output. Sort the output by state, last name, and then first name.**

SELECT DISTINCT CUST\_FNAME, CUST\_LNAME, CUST\_STREET, CUST\_CITY, CUST\_STATE, CUST\_ZIP

FROM LGCUSTOMER AS C, LGINVOICE AS I, LGLINE AS L, LGPRODUCT AS P, LGBRAND AS B

WHERE C.CUST\_CODE = I.CUST\_CODE AND I.INV\_NUM = L.INV\_NUM AND L.PROD\_SKU = P.PROD\_SKU AND P.BRAND\_ID = B.BRAND\_ID AND BRAND\_NAME = 'FORESTERS BEST' AND PROD\_CATEGORY = 'Top Coat' AND INV\_DATE BETWEEN '15-JUL-2015' AND '31-JUL-2015'

ORDER BY CUST\_STATE, CUST\_LNAME, CUST\_FNAME

**50. Write a query to display the employee number, last name, e-mail address, title, and department name of each employee whose job title ends in the word “ASSOCIATE.” Sort the output by department name and employee title.**

SELECT E.EMP\_NUM, E.EMP\_LNAME, E.EMP\_FNAME, E.EMP\_EMAIL, E.EMP\_TITLE, D.DEPT\_NAME

FROM LGEMPLOYEE E INNER JOIN LGDEPARTMENT D

ON E.DEPT\_NUM = D.DEPT\_NUM

WHERE E.EMP\_TITLE LIKE '%ASSOCIATE'

ORDER BY D.DEPT\_NAME, E.EMP\_TITLE

**51. 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 the brand name.**

SELECT B.BRAND\_NAME, COUNT(P.PROD\_SKU) AS 'PRODCOUNT'

FROM LGBRAND B INNER JOIN LGPRODUCT P

ON B.BRAND\_ID = P.BRAND\_ID

GROUP BY B.BRAND\_NAME

ORDER BY B.BRAND\_NAME

**52. Write a query to display the number of products in each category that have a water base.**

SELECT PROD\_CATEGORY, Count(\*) AS NUMPRODUCTS

FROM LGPRODUCT

WHERE PROD\_BASE = 'Water'

GROUP BY PROD\_CATEGORY;'

**53. Write a query to display the number of products within each base and type combination.**

SELECT PROD\_BASE, PROD\_TYPE, COUNT(PROD\_SKU)

FROM LGPRODUCT

GROUP BY PROD\_BASE, PROD\_TYPE

**54. 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.**

SELECT BRAND\_ID, SUM(PROD\_QOH) AS TOTALINVENTORY

FROM LGPRODUCT

GROUP BY BRAND\_ID

ORDER BY BRAND\_ID DESC

**55. 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.)**

SELECT B.BRAND\_ID, B.BRAND\_NAME, ROUND(AVG(P.PROD\_PRICE), 2) AS AVERAGEPRICE

FROM LGBRAND B INNER JOIN LGPRODUCT P

ON B.BRAND\_ID = P.BRAND\_ID

GROUP BY B.BRAND\_ID, B.BRAND\_NAME

ORDER BY B.BRAND\_NAME

**56. Write a query to display the department number and most recent employee hire date for each department. Sort the output by department number.**

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

FROM LGEMPLOYEE E

GROUP BY E.DEPT\_NUM

ORDER BY E.DEPT\_NUM

**57. 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**

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

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

**58. Write a query to display the customer code, first name, last name, and sum of all invoice totals for customers with cumulative invoice totals greater than $1,500.Sort the output by the sum of invoice totals in descending order.**

SELECT C.CUST\_CODE, CUST\_FNAME, CUST\_LNAME, Sum(INV\_TOTAL) AS TOTALINVOICES

FROM LGCUSTOMER AS C, LGINVOICE AS I

WHERE C.CUST\_CODE = I.CUST\_CODE

GROUP BY C.CUST\_CODE, CUST\_FNAME, CUST\_LNAME

HAVING Sum(INV\_TOTAL) > 1500

ORDER BY Sum(INV\_TOTAL) DESC;

**59. 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.**

SELECT D.DEPT\_NUM, DEPT\_NAME, DEPT\_PHONE, D.EMP\_NUM, EMP\_LNAME

FROM LGDEPARTMENT AS D, LGEMPLOYEE AS E

WHERE D.EMP\_NUM = E.EMP\_NUM

ORDER BY DEPT\_NAME;

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

SELECT V.VEND\_ID, VEND\_NAME, BRAND\_NAME, Count(\*) AS NUMPRODUCTS

FROM LGBRAND AS B, LGPRODUCT AS P, LGSUPPLIES AS S, LGVENDOR AS V

WHERE B.BRAND\_ID = P.BRAND\_ID AND P.PROD\_SKU = S.PROD\_SKU AND S.VEND\_ID = V.VEND\_ID

GROUP BY V.VEND\_ID, VEND\_NAME, BRAND\_NAME

ORDER BY VEND\_NAME, BRAND\_NAME;

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

SELECT EMP\_NUM, EMP\_LNAME, EMP\_FNAME, Sum(INV\_TOTAL) AS TOTALINVOICES

FROM LGINVOICE, LGEMPLOYEE

WHERE EMP\_NUM = EMPLOYEE\_ID

GROUP BY EMP\_NUM, EMP\_LNAME, EMP\_FNAME

ORDER BY EMP\_LNAME, EMP\_FNAME;

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

SELECT MAX(AVG\_PRICE) AS LARGEST\_AVG

FROM (SELECT BRAND\_ID, ROUND(AVG(PROD\_PRICE), 2) AS AVG\_PRICE

FROM LGPRODUCT

GROUP BY BRAND\_ID)

AVG\_PRICE

**63. 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.**

SELECT P.BRAND\_ID, BRAND\_NAME, BRAND\_TYPE, ROUND(AVG(PROD\_PRICE), 2) AS AVG\_PRICE

FROM LGPRODUCT P INNER JOIN LGBRAND B ON P.BRAND\_ID = B.BRAND\_ID

GROUP BY P.BRAND\_ID, BRAND\_NAME, BRAND\_TYPE

HAVING ROUND(AVG(PROD\_PRICE), 2) =

(SELECT MAX(AVG\_PRICE) AS LARGEST\_AVG

FROM (SELECT BRAND\_ID, ROUND(AVG(PROD\_PRICE), 2) AS AVG\_PRICE

FROM LGPRODUCT

GROUP BY BRAND\_ID) AVG\_PRICE)

**64. 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 is Hagan on May 18, 2015. For all person names, concatenate the first and last names into a single field.**

SELECT DE.EMP\_FNAME, DE.EMP\_LNAME, DEPT\_NAME, DEPT\_PHONE, E.EMP\_FNAME, E.EMP\_LNAME, CUST\_FNAME, CUST\_LNAME, INV\_DATE, INV\_TOTAL

FROM LGEMPLOYEE DE INNER JOIN LGDEPARTMENT D ON DE.EMP\_NUM = D.EMP\_NUM

INNER JOIN LGEMPLOYEE E ON D.DEPT\_NUM = E.DEPT\_NUM

INNER JOIN LGINVOICE I ON E.EMP\_NUM = I.EMPLOYEE\_ID

INNER JOIN LGCUSTOMER C ON I.CUST\_CODE = C.CUST\_CODE

WHERE CUST\_LNAME = 'HAGAN' AND INV\_DATE = '2015-05-18'