Assignment Four

Advanced SQL

Complete your answers as for the following questions from the course textbook. Submissions will be word processed and submitted in pdf format. Notice the assignment Problems focus on databases present on cs1103.cs.unb.ca.

Chapter Seven Questions

Using the ERD given in Figure P7.56 as well as the corresponding database on cs1103.cs.unb.ca,
- Problems 60, 61,65,
- Problems 72, 73, 74
- Problems 78, 79, 80, 81, 82, 83, 85
- Problem 101

Rick's Questions

1. Using the Ch07_LargeCo ER Diagram, draw a Venn diagram (as seen in the Relational Sets lecture) of employees who have worked for the "Accounting" department and who have worked for the "Marketing" department.
2. Write a word statement describing the overlapping area in the diagram.
3. Write an SQL query that will return only the names of those employees who appear in the overlapping region of the diagram. Note that you will not be able to test it in MySQL.
4. Write an SQL query that will return the names of all employees who have purchased items (are Customers too). Note that you will not be able to test it in MySQL.

LGBRAND
- 🔑 BRAND_ID DECIMAL(4,0)
- ◇ BRAND_NAME VARCHAR(100)
- ◇ BRAND_TYPE VARCHAR(20)

Indexes ▶

LGVENDOR
- 🔑 VEND_ID DECIMAL(6,0)
- ◇ VEND_NAME VARCHAR(255)
- ◇ VEND_STREET VARCHAR(50)
- ◇ VEND_CITY VARCHAR(50)
- ◇ VEND_STATE VARCHAR(2)
- ◇ VEND_ZIP VARCHAR(5)

Indexes ▶

LGDEPARTMENT
- 🔑 DEPT_NUM DECIMAL(5,0)
- ◇ DEPT_NAME VARCHAR(50)
- ◇ DEPT_MAIL_BOX VARCHAR(3)
- ◇ DEPT_PHONE VARCHAR(9)
- ◇ EMP_NUM DECIMAL(6,0)

Indexes ▶

LGSUPPLIES
- PROD_SKU VARCHAR(15)
- VEND_ID DECIMAL(6,0)

Indexes ▶

LGSALARY_HISTORY
- EMP_NUM DECIMAL(6,0)
- 🔑 SAL_FROM DATE
- ◇ SAL_END DATE
- ◇ SAL_AMOUNT DECIMAL(10,2)

Indexes ▶

LGEMPLOYEE
- 🔑 EMP_NUM DECIMAL(6,0)
- ◇ EMP_FNAME VARCHAR(20)
- ◇ EMP_LNAME VARCHAR(25)
- ◇ EMP_EMAIL VARCHAR(25)
- ◇ EMP_PHONE VARCHAR(20)
- ◇ EMP_HIREDATE DATE
- ◇ EMP_TITLE VARCHAR(45)
- ◇ EMP_COMM DECIMAL(2,2)
- ◇ DEPT_NUM DECIMAL(5,0)

Indexes ▶

LGPRODUCT
- 🔑 PROD_SKU VARCHAR(15)
- ◇ PROD_DESCRIPT VARCHAR(255)
- ◇ PROD_TYPE VARCHAR(255)
- ◇ PROD_BASE VARCHAR(255)
- ◇ PROD_CATEGORY VARCHAR(255)
- ◇ PROD_PRICE DECIMAL(10,2)
- ◇ PROD_QOH DECIMAL(10,0)
- ◇ PROD_MIN DECIMAL(10,0)
- ◇ BRAND_ID DECIMAL(4,0)

Indexes ▶

LGCUSTOMER
- 🔑 CUST_CODE DECIMAL(38,0)
- ◇ CUST_FNAME VARCHAR(20)
- ◇ CUST_LNAME VARCHAR(20)
- ◇ CUST_STREET VARCHAR(70)
- ◇ CUST_CITY VARCHAR(50)
- ◇ CUST_STATE CHAR(2)
- ◇ CUST_ZIP CHAR(5)
- ◇ CUST_BALANCE DECIMAL(8,2)

Indexes ▶

LGLINE
- INV_NUM DECIMAL(38,0)
- 🔑 LINE_NUM DECIMAL(10,0)
- ◇ PROD_SKU VARCHAR(15)
- ◇ LINE_QTY DECIMAL(10,0)
- ◇ LINE_PRICE DECIMAL(8,2)

Indexes ▶

LGINVOICE
- 🔑 INV_NUM DECIMAL(38,0)
- ◇ INV_DATE DATE
- ◇ CUST_CODE DECIMAL(38,0)
- ◇ INV_TOTAL DECIMAL(11,2)
- ◇ EMPLOYEE_ID DECIMAL(6,0)

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