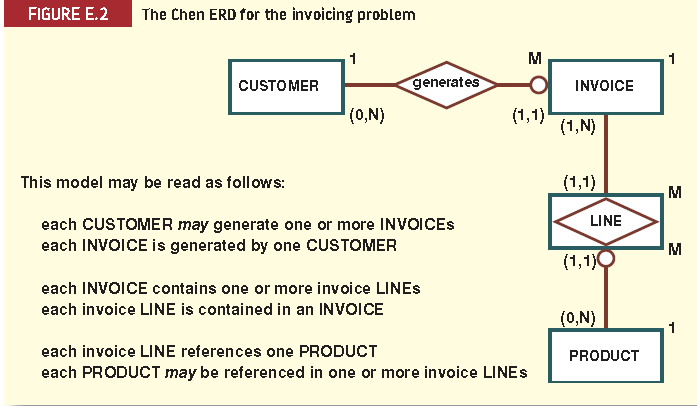
**Skilaverkefni 1**

**SQL DDL Commands Due Date: 25-Sep-2018**



**Entities and their Attributes:**

Customer(CUS\_CODE, CUS\_LNAME, CUS\_FNAME, CUS\_INITIAL, CUS\_AREACODE, CUS\_PHONE, CUS\_BALANCE)

Invoice(INV\_NUMBER, CUS\_CODE, INV\_DATE)

Line(LIN\_NUMBER, LINE\_UNITS, LINE\_PRICE)

Product(PROD\_CODE, PROD\_DESCRIPT, PROD\_PRICE, PROD\_ON\_HAND)

Verdor(VEND\_CODE, VEND\_CONTACT, VEND\_AREACODE, VEND\_PHONE)

1. **Define the data type and size for each attribute:**

|  |  |  |
| --- | --- | --- |
| **Attribute** | **Data type** | **size** |
|  |  |  |
|  |  |  |
|  |  |  |

1. **Creating database and tables:**

Create database called SaleCo and create the database tables with their corresponding attributes.

**Note** that the vendor table does not exist in the ER diagram, so you need to figure out what relationship could link it to one of the tables.

1. **primary and foreign keys constraints:**

Add primary and foreign keys constraints to all tables, based on the relationships shown in ER diagram and the following business rules.

- If a row in the invoice table is deleted, the rows that references it in line table also need to be deleted automatically.

- If a row in the customer table is updated, the rows that references it in the invoice table are also updated automatically.

- If row in the product table is updated the rows that references it in line table, are to be set to null value.

1. **Adding the default values:**

Set the CUS\_BALANCE to DEFAULT to 0.00 in customer table.

Set the CUS\_AREACODE DEFAULT to '0181' in customer table.

set the LINE\_UNITS DEFAULT value to 0.00 in line table

set the LINE\_PRICE DEFAULT values to 0.00 in line table

1. **Inserting data in to tables**

Insert the following data into the tables

**CUSTOMER rows**

(10010,'Ramas','Alfred','A','0181','844-2573',0)

(10011,'Dunne','Leona','K','0161','894-1238',0)

(10012,'Smith','Kathy','W','0181','894-2285',345.86)

**INVOICE rows**

(1001,10014,'2008-01-16')

(1002,10011,'2008-01-16')

(1003,10012,'2008-01-16')

**LINE rows**

(1001,1,'13-Q2/P2',1,14.99)

(1001,2,'23109-HB',1,9.95)

(1002,1,'54778-2T',2,4.99)

**PRODUCT rows**

('11QER/31','Power painter, 15 psi., 3-nozzle','2007-11-07’,8, 5,109.99,0.00,25595)

('13-Q2/P2','7.25-cm. pwr. saw blade’,'2007-12-14', 32, 15, 14.99,0.05,21344)

('14-Q1/L3','9.00-cm. pwr. saw blade','2007-11-13', 18, 12, 17.49,0.00,21344)

**VENDOR rows**

(21225,'Bryson, Inc.','Smithson','0181','223-3234','UK','Y')

(21226,'SuperLoo, Inc.','Flushing','0113','215-8995','SA','N')

(21231,'D\&E Supply','Singh','0181','228-3245','UK','Y')

1. **find a solution to the Problem**

The saleCo company wants to keep records of sales employees, so they can identify each employee, his customers and products that he/she sells. Employees are identified by the following attributes.

(EMP\_NUM(INT), EMP\_TITLE (CHAR (10)), EMP\_LNAME(VARCHAR(15)), EMP\_FNAME(VARCHAR(15)), EMP\_INITIAL(CHAR(1)), EMP\_DOB(DATETIME), EMP\_HIR\_DATE(DATETIME), EMP\_AREACODE(CHAR(5)), EMP\_PHONE(CHAR(8)), EMP\_MGR(INT))

Create the table employee and modify the related tables and their constraints based on the business rules?

**Note: The assignment needs to be submitted in word or pdf format, including SQL code.**

