# Skilaverkefni 1 – Ágúst Örn Eiðsson – GAGN2HS05BU

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

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CUS\_CODE – int – 5 – **Primary key** – 10010

CUS\_LNAME – varchar – 10 – Ramas

CUS\_FNAME – varchar – 10 – Alfred

CUS\_INITIAL – char – 1 – A

CUS\_AREACODE – int – 4 – 0181

CUS\_PHONE – varchar – 8 – 844-2573

CUS\_BALANCE – real – default – 0

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INV\_NUMBER – int – 4 – **Primary key** – 1001

CUS\_CODE – foreign key – 10014

INV\_DATE – date – 2008-01-16

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INV\_NUMBER – **Composite key** - 1001

LIN\_NUMBER – int – 4 – **Composite key** – 1

PROD\_CODE – Foreign key – 13-Q2/P2

LINE\_UNITS – int – 1

LINE\_PRICE – real – default – 14.99

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PROD\_CODE – varchar – 8 – **Primary key** – 11QER/31

PROD\_DESCRIPT – varchar – 40 - Power painter, 15 psi., 3-nozzle

PROD\_INDATE – date – 2007-11-07

PROD\_ON\_HAND – int – 3 – 8

PROD\_MIN – INT – 2 – 5

PROD\_PRICE – real – default – 109.99

PROD\_DISCOUNT – real – DEFAULT – 0.00

VEND\_CODE – foreign key – 25595

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VEND\_CODE – int – 5 – **Primary key** – 21225

VENDOR\_NAME – varchar – 20 - Bryson, Inc.

VEND\_CONTACT – varchar – 25 – Smithson

VEND\_AREACODE – char – 4 - 0181

VEND\_PHONE – varchar – 8 – 223-3234

VEND\_COUNTRY\_CODE – char – 2 – UK

VENDOR\_ORDER – ENUM – (‘N’,’Y’) – Y

**create database 2808002950\_SaleCo;**

**DROP DATABASE 2808002950\_SaleCo;**

**use 2808002950\_SaleCo;**

**create table CUSTOMER(**

**CUS\_CODE INT(5) PRIMARY KEY,**

**CUS\_LNAME VARCHAR(10) NOT NULL,**

**CUS\_FNAME VARCHAR(10) NOT NULL,**

**CUS\_INITIAL CHAR(1) NOT NULL,**

**CUS\_AREACODE INT(4) DEFAULT '0181',**

**CUS\_PHONE VARCHAR(8),**

**CUS\_BALANCE REAL DEFAULT 0.00**

**);**

**create table INVOICE(**

**INV\_NUMBER INT(4) PRIMARY KEY,**

**INV\_DATE DATE NOT NULL,**

**INV\_CUS\_CODE INT(5)**

**);**

**create table LINE(**

**LINE\_INV\_NUMBER INT(4),**

**LINE\_NUMBER INT(3),**

**PRIMARY KEY(LINE\_INV\_NUMBER,LINE\_NUMBER),**

**LINE\_PROD\_CODE VARCHAR(8) NOT NULL,**

**LINE\_UNITS INT(1) DEFAULT 0.00,**

**LINE\_PRICE REAL DEFAULT 0.00**

**);**

**create table PRODUCT(**

**PROD\_CODE VARCHAR(8) PRIMARY KEY,**

**PROD\_DESCRIPT VARCHAR(40) NOT NULL,**

**PROD\_INDATE DATE NOT NULL,**

**PROD\_ON\_HAND INT(3) DEFAULT 0,**

**PROD\_MIN INT(2) NOT NULL,**

**PROD\_PRICE REAL NOT NULL,**

**PROD\_DISCOUNT REAL DEFAULT 0.00,**

**PROD\_VEND\_CODE INT(5) NOT NULL**

**);**

**create table VENDOR(**

**VEND\_CODE INT(5) PRIMARY KEY,**

**VEND\_NAME VARCHAR(20) NOT NULL,**

**VEND\_CONTACT VARCHAR(25) NOT NULL,**

**VEND\_AREACODE CHAR(4),**

**VEND\_PHONE VARCHAR(8),**

**VEND\_COUNTRY\_CODE CHAR(2),**

**VEND\_ORDER ENUM('N','Y')**

**);**

**create table EMPLOYEE(**

**EMP\_NUM INT auto\_increment PRIMARY KEY,**

**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**

**);**

**insert into customer(CUS\_CODE,CUS\_LNAME,CUS\_FNAME,CUS\_INITIAL,CUS\_AREACODE,CUS\_PHONE,CUS\_BALANCE)**

**values(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)**

**;**

**insert into invoice(INV\_NUMBER,INV\_CUS\_CODE,INV\_DATE)**

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

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

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

**insert into LINE(LINE\_INV\_NUMBER,LINE\_NUMBER,LINE\_PROD\_CODE,LINE\_UNITS,LINE\_PRICE)**

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

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

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

**insert into PRODUCT(PROD\_CODE,PROD\_DESCRIPT,PROD\_INDATE,PROD\_ON\_HAND,PROD\_MIN,PROD\_PRICE,PROD\_DISCOUNT,PROD\_VEND\_CODE)**

**values('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);**

**insert into VENDOR(VEND\_CODE,VEND\_NAME,VEND\_CONTACT,VEND\_AREACODE,VEND\_PHONE,VEND\_COUNTRY\_CODE,VEND\_ORDER)**

**values(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');**

**ALTER TABLE LINE ADD CONSTRAINT FOREIGN KEY(LINE\_PROD\_CODE) references PRODUCT(PROD\_CODE) ON UPDATE SET NULL;**

**ALTER TABLE LINE ADD CONSTRAINT FOREIGN KEY(LINE\_INV\_NUMBER) references INVOICE(INV\_NUMBER) ON DELETE CASCADE;**

**ALTER TABLE INVOICE ADD CONSTRAINT FOREIGN KEY(INV\_CUS\_CODE) references CUSTOMER(INV\_CUS\_CODE) ON UPDATE CASCADE;**

**ALTER TABLE PRODUCT ADD CONSTRAINT FOREIGN KEY(PROD\_VEND\_CODE) references VENDOR(VEND\_CODE);**

**ALTER TABLE INVOICE ADD INV\_EMP\_NUM INT NOT NULL;**

**ALTER TABLE INVOICE ADD CONSTRAINT FOREIGN KEY(INV\_EMP\_NUM) references EMPLOYEE(EMP\_NUM);**