Kolbeinn Skilaverkefni 1 GAGN2HS05BU

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| --- | --- | --- |
| **Attribute** | **Data type** | **size** |
| CUS\_CODE | INT | 5 |
| CUS\_LNAME | VARCHAR | 10 |
| CUS\_FNAME | VARHCAR | 6 |
| CUS\_INITIAL | CHAR | 1 |
| CUS\_AREACODE | INT | 5 |
| CUS\_PHONE | VARCHAR | 8 |
| CUS\_BALANCE | DOUBLE | Default |
| INV\_NUMBER | INT | 3 |
| INV\_CUS\_CODE | Foreign key INT | 5 |
| INV\_DATE | DATE | Default |
| LINE\_NUMBER | INT Composite key | 4 |
| LINE\_UNITS | INT | 3 |
| LINE\_PRICE | DOUBLE | Default |
| LINE\_P\_CODE | Foreign key varchar | 8 |
| LINE\_INV\_NUMBER | INT Composite key | 4 |
| PROD\_CODE | VARCHAR | 8 |
| PROD\_DESCRIPT | VARCHAR | 32 |
| PROD\_INDATE | DATE | Default |
| PROD\_MIN | INT | 2 |
| PROD\_Q\_ON\_HAND | INT | 4 |
| PROD\_PRICE | DOUBLE | Default |
| PROD\_DISCOUNT | DOUBLE | 2 |
| PROD\_V\_CODE | Foreign key int | 5 |
| VEND\_CODE | INT | 5 |
| VEND\_NAME | VARCHAR | 20 |
| VEND\_CONTACT | VARCHAR | 8 |
| VEND\_AREACODE | CHAR | 4 |
| VEND\_PHONE | VARCHAR | 8 |
| VEND\_COUNTRY\_CODE | CHAR | 2 |
| VEND\_ORDER | ENUM(‘Y‘,‘N‘) | default |

SQL CODE:

create database 0908002640\_SaleCo;

use 0908002640\_SaleCo;

create table CUSTOMER(

CUS\_CODE INT(5) PRIMARY KEY,

CUS\_LNAME VARCHAR(10) NOT NULL,

CUS\_FNAME VARCHAR(10) NOT NULL,

CUS\_INITAL CHAR(1),

CUS\_AREACODE INT(5) DEFAULT '0181',

CUS\_PHONE VARCHAR(8),

CUS\_BALANCE DOUBLE DEFAULT 0.00

);

create table INVOICE(

INV\_NUMBER INT(4) PRIMARY KEY,

INV\_DATE DATE,

INV\_CUS\_CODE INT(5),

FOREIGN KEY (INV\_CUS\_CODE) REFERENCES customer(CUS\_CODE)

);

create table LINE(

LINE\_INV\_NUMBER INT(4),

LINE\_NUMBER INT(3),

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

LINE\_UNITS INT(3) DEFAULT 0,

LINE\_PRICE DOUBLE DEFAULT 0.00,

LINE\_PROD\_CODE VARCHAR(8) NOT NULL /\*soon to be foreign key\*/

);

create table PRODUCT(

PROD\_CODE VARCHAR(8) PRIMARY KEY,

PROD\_DESCRIPT VARCHAR(32),

PROD\_INDATE DATE,

PROD\_MIN INT(2),

PROD\_Q\_ON\_HAND INT(4),

PROD\_PRICE DOUBLE NOT NULL,

PROD\_DISCOUNT DOUBLE DEFAULT 0.00,

PROD\_V\_CODE INT(5) NOT NULL

);

create table VENDOR(

VEND\_CODE INT(5) PRIMARY KEY,

VEND\_NAME VARCHAR(20) NOT NULL,

VEND\_CONTACT VARCHAR(8) NOT NULL,

VEND\_AREACODE CHAR(4),

VEND\_PHONE VARCHAR(8),

VEND\_COUNTRY\_CODE CHAR(2) NOT NULL,

VEND\_ORDER ENUM('Y','N') NOT NULL

);

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

);

ALTER TABLE LINE ADD CONSTRAINT FOREIGN KEY(LINE\_PROD\_CODE) REFERENCES PRODUCT(PROD\_CODE) ON UPDATE CASCADE;

ALTER TABLE LINE ADD CONSTRAINT FOREIGN KEY(LINE\_INV\_NUMBER) REFERENCES INVOICE(INV\_NUMBER) ON UPDATE CASCADE;

ALTER TABLE PRODUCT ADD CONSTRAINT FOREIGN KEY(PROD\_V\_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);