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-- # TASK-1 # --

-- CREATE DATABASE INVENTORY;
-- USE INVENTORY;

-- CREATING SUPPLIER TABLE
CREATE TABLE SUPPLIER
(SID CHAR(5) PRIMARY KEY CHECK (SID LIKE 'S____'),
SNAME VARCHAR(30) NOT NULL,
SADDR VARCHAR(60) NOT NULL,
SCITY VARCHAR(30) DEFAULT('DELHI'),
SPHONE CHAR(14) UNIQUE,
SMAIL VARCHAR(50) UNIQUE);

-- CREATING PRODUCT TABLE
CREATE TABLE PRODUCT
(PID CHAR(5) PRIMARY KEY CHECK (PID LIKE 'P____'),
PDESC VARCHAR(50) NOT NULL,
PRICE INT,
CATEGORY VARCHAR(50),
SID CHAR(5) FOREIGN KEY REFERENCES SUPPLIER(SID));

-- CREATING CUSTOMER TABLE
CREATE TABLE CUSTOMER
(CID CHAR(5) PRIMARY KEY CHECK (CID LIKE 'C____'),
CNAME VARCHAR(30) NOT NULL,
CADDR VARCHAR(70) NOT NULL,
CCITY VARCHAR(30) NOT NULL,
CPHONE CHAR(14) NOT NULL,
DOB DATE CHECK (DOB < '01-01-2020'));

-- CREATING ORDERS TABLE
CREATE TABLE ORDERS
(OID CHAR(5) PRIMARY KEY CHECK (OID LIKE 'O____'),
ODATE DATE,
CID CHAR(5) FOREIGN KEY REFERENCES CUSTOMER(CID),
PID CHAR(5) FOREIGN KEY REFERENCES PRODUCT(PID),
OQTY INT CHECK (OQTY >= 1));

-- CREATING STOCK TABLE
CREATE TABLE STOCK
(PID CHAR(5) FOREIGN KEY REFERENCES PRODUCT(PID),
SQTY INT CHECK (SQTY >= 0),
ROL INT CHECK (ROL > 0),
MOQ INT CHECK (MOQ >= 5));

-- VIEWING ALL TABLES
SELECT * FROM SUPPLIER;
SELECT * FROM PRODUCT;
SELECT * FROM CUSTOMER;
SELECT * FROM ORDERS;
SELECT * FROM STOCK;
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