

1)SUPPLIER :

```
CREATE TABLE SUPPLIER (  
  Sno VARCHAR(5) CHECK (Sno LIKE 'S%' AND LEN(Sno) <=  
5), Sname VARCHAR(50) NOT NULL,  
  Address VARCHAR(100) NOT NULL,  
  City VARCHAR(50) CHECK (City IN ('London', 'Paris',  
'Rome', 'New York', 'Amsterdam')),  
  PRIMARY KEY (Sno) ); ----('S01', 'Global Supplies  
Ltd.', '123 Main, London', 'London')-----
```

```
CREATE TABLE PARTS (  
  Pno INT PRIMARY KEY,  
  Pname VARCHAR(50) NOT NULL,  
  Color VARCHAR(20) NOT NULL,  
  Weight DECIMAL(5,2) NOT NULL,  
  Price DECIMAL(10,2) NOT NULL  
); --(101, 'Steel Rod', 'Silver', 12.50, 150.00)--
```

```
CREATE TABLE PROJECT (  
  Jno INT PRIMARY KEY,  
  Jname VARCHAR(50) UNIQUE NOT NULL,  
  City VARCHAR(50) CHECK (City IN ('London', 'Paris',  
'Rome', 'New York', 'Amsterdam')) NOT NULL  
); --(201, 'Bridge Construction', 'Paris')--
```

```
CREATE TABLE SPJ (  
  Sno VARCHAR(5),  
  Pno INT,  
  Jno INT,  
  Qty INT NOT NULL,  
  FOREIGN KEY (Sno) REFERENCES SUPPLIER(Sno),  
  FOREIGN KEY (Pno) REFERENCES PARTS(Pno),  
  FOREIGN KEY (Jno) REFERENCES PROJECT(Jno)  
);
```

```
INSERT INTO PARTS (Pno, Pname, Color, Weight, Price)
```

```
VALUES (101, 'Gear', 'Red', 2.50, 150.00);
```

2) PRODUCT:

```
CREATE TABLE PRODUCT (  
    Maker VARCHAR(50) NOT NULL,  
    Modelno INT PRIMARY KEY,  
    Type VARCHAR(10) CHECK (Type IN ('PC', 'Laptop',  
'Printer')) NOT NULL  
); -- ('Dell', 1001, 'PC');--  
CREATE TABLE PC (  
    Modelno INT PRIMARY KEY,  
    Speed INT NOT NULL,  
    RAM INT NOT NULL,  
    HD INT NOT NULL,  
    CD VARCHAR(20) NOT NULL,  
    Price DECIMAL(10,2) NOT NULL,  
    FOREIGN KEY (Modelno) REFERENCES PRODUCT(Modelno)  
); --(1001, 3200, 16, 1000, 'DVD-RW', 550.00)--  
CREATE TABLE LAPTOP (  
    Modelno INT PRIMARY KEY,  
    Speed INT NOT NULL,  
    RAM INT NOT NULL,  
    HD INT NOT NULL,  
    Price DECIMAL(10,2) NOT NULL,  
    FOREIGN KEY (Modelno) REFERENCES PRODUCT(Modelno)  
); --(1002, 2800, 8, 512, 750.00);--  
CREATE TABLE PRINTER (  
    Modelno INT PRIMARY KEY,  
    Color CHAR(1) CHECK (Color IN ('T', 'F')) NOT NULL,  
    Type VARCHAR(20) CHECK (Type IN ('laser', 'ink-jet',  
'dot-matrix', 'dry')) NOT NULL,  
    Price DECIMAL(10,2) NOT NULL,  
    FOREIGN KEY (Modelno) REFERENCES PRODUCT(Modelno));  
--(1003, 'T', 'ink-jet', 120.00);-- give modelno same
```

3) DOCTOR:

```
CREATE TABLE DOCTOR (  
    Did INT PRIMARY KEY,  
    Dname VARCHAR(50) NOT NULL,  
    Daddress VARCHAR(100) NOT NULL,  
    Qualification VARCHAR(20) NOT NULL  
); (1, 'Dr. Neha', 'Pune', 'M.B.B.S.')
```

```
CREATE TABLE PATIENTMASTER (  
    Pcode INT PRIMARY KEY,  
    Pname VARCHAR(50) NOT NULL,  
    Padd VARCHAR(100) NOT NULL,  
    Age INT NOT NULL,  
    Gender CHAR(1) CHECK (Gender IN ('M',  
    'F')) NOT NULL, BloodGroup VARCHAR(5) NOT  
NULL,  
    Did INT NOT NULL,  
    FOREIGN KEY (Did) REFERENCES DOCTOR(Did)  
); --(101, 'Ravi ', 'Pune', 35, 'M', 'B+', 1)
```

```
CREATE TABLE ADMITTEDPATIENT (  
    P_code INT, Entry_date DATE NOT NULL,  
    Discharge_date DATE,  
    Ward_no INT CHECK (Ward_no < 5) NOT NULL,  
    Disease VARCHAR(50) NOT NULL,  
    FOREIGN KEY (P_code) REFERENCES  
PATIENTMASTER(Pcode) ); --(101, '2025-06-  
01', '2025-06-05', 2, 'Typhoid')--
```

4)Account :

```
CREATE TABLE ACCOUNT (  
    accno INT PRIMARY KEY CHECK (accno <  
1000),  
    open_date DATE NOT NULL,  
    acctype CHAR(1) CHECK (acctype IN ('P',  
'J')) NOT NULL,    balance DECIMAL(12,2) NOT  
NULL  
); --(101, '2025-06-01', 'P', 15000.00);  
CREATE TABLE [TRANSACTION] (  
    trans_id INT PRIMARY KEY,  
    trans_date DATE NOT NULL,  
    accno INT NOT NULL,  
    trans_type CHAR(1) CHECK (trans_type IN  
('C', 'D')) NOT NULL,    amount  
DECIMAL(10,2) NOT NULL,  
    FOREIGN KEY (accno) REFERENCES  
ACCOUNT(accno) ); --(1, '2025-06-05', 101,  
'C', 5000.00)  
CREATE TABLE CUSTOMER (  
    cust_id INT PRIMARY KEY,  
    name VARCHAR(50) NOT NULL,  
    address VARCHAR(100) NOT NULL,  
    accno INT NOT NULL,  
    FOREIGN KEY (accno) REFERENCES  
ACCOUNT(accno) ); --(1, 'Amit Kulkarni',  
'123 MG Road, Mumbai', 101);
```

5)Bookmaster:

```
CREATE TABLE BOOKMASTER (  
  bid INT PRIMARY KEY, title VARCHAR(100) NOT NULL,  
  author VARCHAR(50) NOT NULL,  
  price DECIMAL(8,2) NOT NULL );  
(1,'Introduction to SQL', 'James Peterson', 499.50)  
CREATE TABLE STUDENTMASTER (  
  stud_enrollno INT PRIMARY KEY,  
  sname VARCHAR(50) NOT NULL,  
  class VARCHAR(20) NOT NULL,  
  dept VARCHAR(50) NOT NULL );  
(101, 'Riya Mehta', 'TYBSc', 'Computer Science');  
CREATE TABLE ACCESSIONTABLE (  
  accession_no INT PRIMARY KEY,  
  bid INT NOT NULL,  
  avail CHAR(1) CHECK (avail IN ('T', 'F')) NOT NULL,  
  FOREIGN KEY (bid) REFERENCES BOOKMASTER(bid) );  
----(1001, 1, 'F')--  
CREATE TABLE ISSUETABLE (  
  issueid INT PRIMARY KEY,  
  accession_no INT NOT NULL,  
  stud_enrollno INT NOT NULL,  
  issuedate DATE NOT NULL,  
  duedate DATE NOT NULL,  
  ret_date DATE,  
  bid INT NOT NULL,  
  FOREIGN KEY (accession_no) REFERENCES  
ACCESSIONTABLE(accession_no),  
  FOREIGN KEY (stud_enrollno) REFERENCES  
STUDENTMASTER(stud_enrollno),  
  FOREIGN KEY (bid) REFERENCES BOOKMASTER(bid) );  
(501, 1001, 101, '2025-06-01', '2025-06-15',  
NULL, 1);
```