**BILLING MANAGEMENT SYSTEM :**

**ENTITIES :**

1. **Customer**
2. **Product**
3. **Invoice**
4. **InvoiceItem**

**mysql> CREATE DATABASE project;**

**mysql> use project;**

**Database changed**

**mysql> CREATE TABLE Customer ( CId int PRIMARY KEY, Name VARCHAR(50) NOT NULL, Address varchar(80) NOT NULL, Phone\_No VARCHAR(15) NOT NULL, Email VARCHAR(25) NOT NULL );**

**mysql> desc customer;**

**+----------+-------------+------+-----+---------+-------+**

**| Field | Type | Null | Key | Default | Extra |**

**+----------+-------------+------+-----+---------+-------+**

**| CId | int | NO | PRI | NULL | |**

**| Name | varchar(50) | NO | | NULL | |**

**| Address | varchar(80) | NO | | NULL | |**

**| Phone\_No | varchar(15) | NO | | NULL | |**

**| Email | varchar(25) | NO | | NULL | |**

**+----------+-------------+------+-----+---------+-------+**

**mysql> CREATE TABLE Product ( PId int PRIMARY KEY, Name VARCHAR(50) NOT NULL, Description VARCHAR(50), Price DECIMAL(10, 2) NOT NULL, Stock INT NOT NULL );**

**mysql> desc product;**

**+-------------+---------------+------+-----+---------+-------+**

**| Field | Type | Null | Key | Default | Extra |**

**+-------------+---------------+------+-----+---------+-------+**

**| PId | int | NO | PRI | NULL | |**

**| Name | varchar(50) | NO | | NULL | |**

**| Description | varchar(50) | YES | | NULL | |**

**| Price | decimal(10,2) | NO | | NULL | |**

**| Stock | int | NO | | NULL | |**

**+-------------+---------------+------+-----+---------+-------+**

**mysql> CREATE TABLE Invoice ( IId int PRIMARY KEY, IDate DATE NOT NULL, CId VARCHAR(10) NOT NULL, Total\_Amount DECIMAL(10, 2) NOT NULL, FOREIGN KEY (CId) REFERENCES Customer(CId) );**

**mysql> desc invoice;**

**+--------------+---------------+------+-----+---------+-------+**

**| Field | Type | Null | Key | Default | Extra |**

**+--------------+---------------+------+-----+---------+-------+**

**| IId | int | NO | PRI | NULL | |**

**| IDate | date | NO | | NULL | |**

**| CId | int | NO | MUL | NULL | |**

**| Total\_Amount | decimal(10,2) | NO | | NULL | |**

**+--------------+---------------+------+-----+---------+-------+**

**mysql> CREATE TABLE InvoiceItem ( IItemId int PRIMARY KEY, IId int NOT NULL, PId int NOT NULL, Quantity INT NOT NULL, Total\_Price DECIMAL(10, 2) NOT NULL, FOREIGN KEY (IId) REFERENCES Invoice(IID), FOREIGN KEY (PID) REFERENCES Product(PId) );**

**mysql> desc invoiceitem;**

**+-------------+---------------+------+-----+---------+-------+**

**| Field | Type | Null | Key | Default | Extra |**

**+-------------+---------------+------+-----+---------+-------+**

**| IItemId | int | NO | PRI | NULL | |**

**| IId | int | NO | MUL | NULL | |**

**| PId | int | NO | MUL | NULL | |**

**| Quantity | int | NO | | NULL | |**

**| Total\_Price | decimal(10,2) | NO | | NULL | |**

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