```
1: -- Active: 1708549946789@@127.0.0.1@3306@SoftwareDB
 3: DROP DATABASE IF EXISTS SoftwareDB:
 4:
 5: CREATE DATABASE SoftwareDB;
 6: USE SoftwareDB;
 7:
 8: CREATE OR REPLACE TABLE Person (
 9: PersonID int (11) NOT NULL AUTO_INCREMENT,
10: FName varchar(50),
11: LName varchar(50),
12: PhoneNum varchar(30
13: Email varchar(150),
     PhoneNum varchar (30),
14: CONSTRAINT Person_PK PRIMARY KEY (PersonID),
    CONSTRAINT Person_Email_U UNIQUE (Email)
15:
16: ) Engine = InnoDB CHARACTER SET=utf8 COLLATE=utf8_bin;
17:
18: CREATE OR REPLACE TABLE Client (
     ClientID int(11),
19:
20: FirstContactDate DATE.
21: CONSTRAINT Client_ClientID_FK FOREIGN KEY (ClientID) REFERENCES Person(PersonID),
22:
     CONSTRAINT ClientID_PK PRIMARY KEY (ClientID)
23: ) Engine = InnoDB CHARACTER SET=utf8 COLLATE=utf8_bin;
25: CREATE OR REPLACE TABLE Employee (
26: EmpID int (11),
27: Salary int (9),
28: CONSTRAINT Employee_EmpID_FK FOREIGN KEY (EmpID) REFERENCES Person(PersonID),
29:
     CONSTRAINT EmpID_PK PRIMARY KEY (EmpID)
30: ) Engine = InnoDB CHARACTER SET=utf8 COLLATE=utf8_bin;
31:
32: CREATE OR REPLACE TABLE SoftwareProduct (
     SoftwareID int (11) NOT NULL AUTO_INCREMENT,
33:
34: Name varchar(150),
35: CurrVersionNum DECIMAL(3,2),
     EmpID int (11) NOT NULL,
36:
37: Dependencies varchar(150) DEFAULT NULL,
38: CONSTRAINT SoftwareProduct_Name_U UNIQUE (Name),
39:
40:
     CONSTRAINT SoftwareID_PK PRIMARY KEY (SoftwareID),
     CONSTRAINT SoftwarreProduct_EmpID_FK FOREIGN KEY (EmpID) REFERENCES Employee(EmpID)
41: ) Engine = InnoDB CHARACTER SET=utf8 COLLATE=utf8_bin;
42:
43: CREATE OR REPLACE TABLE WorkingOn (
44: SoftwareID int (11) NOT NULL,
45: EmpID int (11) NOT NULL,
46: CONSTRAINT WorkingOn_PK PRIMARY KEY (SoftwareID, EmpID),
47: CONSTRAINT WorkingOn_SoftwareID_FK FOREIGN KEY (SoftwareID) REFERENCES SoftwareProduct(SoftwareID),
48: CONSTRAINT WorkingOn_EmpID_FK FOREIGN KEY (EmpID) REFERENCES Employee (EmpID)
49: ) Engine = InnoDB CHARACTER SET=utf8 COLLATE=utf8 bin;
50:
51: CREATE OR REPLACE TABLE ServicePlan (
52: PlanID int (11) NOT NULL AUTO_INCREMENT,
53:
     Cost int (12) NOT NULL,
54: ServiceLevel varchar(50) NOT NULL,
55: CONSTRAINT ServicePlan_PK PRIMARY KEY (PlanID)
56: ) Engine = InnoDB CHARACTER SET=utf8 COLLATE=utf8_bin;
57:
58: -- UsesProduct table also contains PointOfContact relationship and BuysServicePlan
59: CREATE OR REPLACE TABLE UsesProduct (
60: ClientID int (11) NOT NULL,
61: SoftwareID int (11) NOT NULL,
62:
     PtOfContact_EmpID int (11) NOT NULL,
63:
      PlanID int (11) DEFAULT NULL,
     CONSTRAINT UsesProduct_PK PRIMARY KEY (ClientID, SoftwareID, PtOfContact_EmpID),
64:
65:
     CONSTRAINT PlanID_FK FOREIGN KEY (PlanID) REFERENCES ServicePlan(PlanID),
     CONSTRAINT UsesProduct_ClientID_FK FOREIGN KEY (ClientID) REFERENCES Client(ClientID),
66:
67:
     CONSTRAINT UsesProduct_PtOfContact_EmpID_FK FOREIGN KEY (PtOfContact_EmpID) REFERENCES Employee(EmpID),
     CONSTRAINT UsesProduct_SoftwareID_FK FOREIGN KEY (SoftwareID) REFERENCES SoftwareProduct(SoftwareID)
69: ) Engine = InnoDB CHARACTER SET=utf8 COLLATE=utf8_bin;
70:
71: CREATE OR REPLACE TABLE Dependent (
72: ParentID int(11) NOT NULL,
73:
      ChildID int (11) NOT NULL,
74:
     CONSTRAINT Dependent_PK PRIMARY KEY (ParentID, ChildID),
75:
     CONSTRAINT ParentID_FK FOREIGN KEY (ParentID) REFERENCES SoftwareProduct(EmpID)
76:
      ) Engine = InnoDB CHARACTER SET=utf8 COLLATE=utf8_bin;
77:
```

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78: ALTER TABLE 'Dependent' ADD CONSTRAINT ChildID_FK FOREIGN KEY (ChildID) REFERENCES SoftwareProduct(EmpID)