

```
CREATE TABLE PERSON (  
    Person_ID INT PRIMARY KEY,  
    First_Name VARCHAR(50) NOT NULL,  
    Last_Name VARCHAR(50) NOT NULL,  
    Age INT CHECK (Age BETWEEN 18 AND 64),  
    Gender CHAR(1) CHECK (Gender IN ('M', 'F', 'O')),  
    Address_Line_1 VARCHAR(100) NOT NULL,  
    Address_Line_2 VARCHAR(100),  
    City VARCHAR(50) NOT NULL,  
    State VARCHAR(50) NOT NULL,  
    Zipcode VARCHAR(10) NOT NULL  
);
```

```
CREATE TABLE PHONE (  
    Phone_Number VARCHAR(20) NOT NULL,  
    Person_ID INT NOT NULL,  
    PRIMARY KEY (Person_ID, Phone_Number),  
    FOREIGN KEY (Person_ID) REFERENCES PERSON(Person_ID) ON DELETE CASCADE  
);
```

```
CREATE TABLE RANK_TABLE (  
    Rank_Code VARCHAR(20) PRIMARY KEY,  
    Job_Title VARCHAR(50) NOT NULL  
);
```

```
CREATE TABLE EMPLOYEE (  
    Employee_ID INT PRIMARY KEY,  
    Supervisor_ID INT,  
    Rank_Code VARCHAR(20) NOT NULL,  
    FOREIGN KEY (Employee_ID) REFERENCES PERSON(Person_ID) ON DELETE  
CASCADE,  
    FOREIGN KEY (Supervisor_ID) REFERENCES EMPLOYEE(Employee_ID) ON DELETE  
SET NULL,  
    FOREIGN KEY (Rank_Code) REFERENCES RANK_TABLE(Rank_Code)  
);
```

```
CREATE TABLE CUSTOMER (  
    Customer_ID INT PRIMARY KEY,  
    Preferred_Salesperson_ID INT,  
    FOREIGN KEY (Customer_ID) REFERENCES PERSON(Person_ID) ON DELETE  
CASCADE,  
    FOREIGN KEY (Preferred_Salesperson_ID) REFERENCES EMPLOYEE(Employee_ID) ON  
DELETE SET NULL  
);
```

```
CREATE TABLE SALARY_PAYMENT (  
    Payroll_ID INT PRIMARY KEY,  
    Employee_ID INT NOT NULL,  
    Pay_Date DATE NOT NULL,  
    Amount DECIMAL(10, 2) CHECK (Amount >= 0),  
    FOREIGN KEY (Employee_ID) REFERENCES EMPLOYEE(Employee_ID) ON DELETE  
CASCADE  
);
```

```
CREATE TABLE DEPARTMENT (  
    Department_ID INT PRIMARY KEY,  
    Department_Name VARCHAR(50) NOT NULL  
);
```

```
CREATE TABLE EMPLOYEE_DEPARTMENT_ASSIGNMENT (  
    Employee_ID INT,  
    Department_ID INT,  
    Start_Date DATE NOT NULL,  
    End_Date DATE,  
    PRIMARY KEY (Employee_ID, Department_ID, Start_Date),  
    FOREIGN KEY (Employee_ID) REFERENCES EMPLOYEE(Employee_ID) ON DELETE  
CASCADE,  
    FOREIGN KEY (Department_ID) REFERENCES DEPARTMENT(Department_ID) ON  
DELETE CASCADE  
);
```

```
CREATE TABLE JOB_POSITION (  
    Job_ID INT PRIMARY KEY,  
    Description TEXT NOT NULL,  
    Posted_Date DATE NOT NULL,  
    Department_ID INT NOT NULL,  
    FOREIGN KEY (Department_ID) REFERENCES DEPARTMENT(Department_ID) ON  
DELETE CASCADE  
);
```

```
CREATE TABLE APPLICATION (  
    Application_ID INT PRIMARY KEY,  
    Person_ID INT NOT NULL,  
    Job_ID INT NOT NULL,  
    Status VARCHAR(30),  
    Application_Date DATE NOT NULL,  
    FOREIGN KEY (Person_ID) REFERENCES PERSON(Person_ID) ON DELETE CASCADE,  
    FOREIGN KEY (Job_ID) REFERENCES JOB_POSITION(Job_ID) ON DELETE CASCADE
```

);

```
CREATE TABLE INTERVIEW (  
    Interview_ID INT PRIMARY KEY,  
    Job_ID INT NOT NULL,  
    Candidate_ID INT NOT NULL,  
    Interview_Time DATETIME NOT NULL,  
    FOREIGN KEY (Job_ID) REFERENCES JOB_POSITION(Job_ID) ON DELETE CASCADE,  
    FOREIGN KEY (Candidate_ID) REFERENCES PERSON(Person_ID) ON DELETE  
CASCADE  
);
```

```
CREATE TABLE INTERVIEW_EVALUATION (  
    Interview_ID INT,  
    Interviewer_ID INT,  
    Grade VARCHAR(10),  
    PRIMARY KEY (Interview_ID, Interviewer_ID),  
    FOREIGN KEY (Interview_ID) REFERENCES INTERVIEW(Interview_ID) ON DELETE  
CASCADE,  
    FOREIGN KEY (Interviewer_ID) REFERENCES PERSON(Person_ID) ON DELETE  
CASCADE  
);
```

```
CREATE TABLE SALES_SITE (  
    Site_ID INT PRIMARY KEY,  
    Site_Name VARCHAR(50) NOT NULL,  
    Location VARCHAR(100)  
);
```

```
CREATE TABLE PRODUCT (  
    Product_ID INT PRIMARY KEY,  
    Product_Type VARCHAR(30) NOT NULL,  
    Size DECIMAL(6,2) CHECK (Size > 0),  
    Weight DECIMAL(6,2) CHECK (Weight > 0),  
    Style VARCHAR(30),  
    Base_Price DECIMAL(10,2) NOT NULL  
);
```

```
CREATE TABLE SALE (  
    Sale_ID INT PRIMARY KEY,  
    Product_ID INT NOT NULL,  
    Employee_ID INT NOT NULL,  
    Customer_ID INT NOT NULL,  
    Site_ID INT NOT NULL,
```

```
Sale_Time DATETIME NOT NULL,  
FOREIGN KEY (Product_ID) REFERENCES PRODUCT(Product_ID) ON DELETE  
CASCADE,  
FOREIGN KEY (Employee_ID) REFERENCES EMPLOYEE(Employee_ID) ON DELETE  
CASCADE,  
FOREIGN KEY (Customer_ID) REFERENCES PERSON(Person_ID) ON DELETE  
CASCADE,  
FOREIGN KEY (Site_ID) REFERENCES SALES_SITE(Site_ID) ON DELETE CASCADE  
);
```

```
CREATE TABLE PART_TYPE (  
    Part_Type_ID INT PRIMARY KEY,  
    Part_Type_Name VARCHAR(50) NOT NULL  
);
```

```
CREATE TABLE PRODUCT_COMPONENT (  
    Product_ID INT,  
    Part_Type_ID INT,  
    Quantity INT,  
    PRIMARY KEY (Product_ID, Part_Type_ID),  
    FOREIGN KEY (Product_ID) REFERENCES PRODUCT(Product_ID) ON DELETE  
CASCADE,  
    FOREIGN KEY (Part_Type_ID) REFERENCES PART_TYPE(Part_Type_ID) ON DELETE  
CASCADE  
);
```

```
CREATE TABLE VENDOR (  
    Vendor_ID INT PRIMARY KEY,  
    Name VARCHAR(50) NOT NULL,  
    Address_Line_1 VARCHAR(100) NOT NULL,  
    Address_Line_2 VARCHAR(100),  
    City VARCHAR(50) NOT NULL,  
    State VARCHAR(50) NOT NULL,  
    Zipcode VARCHAR(10) NOT NULL,  
    Account_No INT,  
    Rating INT CHECK (Rating BETWEEN 1 AND 10),  
    Web_URL VARCHAR(255)  
);
```

```
CREATE TABLE VENDOR_PART_SUPPLY (  
    Part_Type_ID INT,  
    Vendor_ID INT,  
    Price DECIMAL(10,2) NOT NULL,  
    PRIMARY KEY (Part_Type_ID, Vendor_ID),
```

```
FOREIGN KEY (Part_Type_ID) REFERENCES PART_TYPE(Part_Type_ID) ON DELETE  
CASCADE,  
FOREIGN KEY (Vendor_ID) REFERENCES VENDOR(Vendor_ID) ON DELETE CASCADE  
);
```