



IT - 214

DATABASE MANAGEMENT SYSTEMS

Title : - Military Database

DDL Statements

Group Details

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Data Definition Language Script

Create Schema Military_Database;

Set Search_Path to Military_Database

```
CREATE TABLE Personnel (  
    ID INTEGER PRIMARY KEY,  
    Firstname VARCHAR(20) NOT NULL,  
    Middlename VARCHAR(20) NOT NULL,  
    Lastname VARCHAR(20) NOT NULL,  
    Gender CHAR(1) NOT NULL,  
    DateofBirth DATE NOT NULL,  
    Rank TEXT NOT NULL,  
    ServiceStatus TEXT NOT NULL,  
    Height INTEGER NOT NULL,  
    Weight INTEGER NOT NULL,  
    JoinDate DATE NOT NULL,  
    UnitName VARCHAR(50),  
    SubunitName VARCHAR(50),  
    ServiceName VARCHAR(50),  
    BarracksName VARCHAR(50),  
    Martyred VARCHAR(3) NOT NULL,
```

```
        EndDate DATE NOT NULL,  
        FOREIGN KEY (UnitName) REFERENCES Unit(UnitName) ON DELETE CASCADE ON  
UPDATE CASCADE,  
        FOREIGN KEY (SubunitName) REFERENCES Subunit(SubunitName) ON DELETE  
CASCADE ON UPDATE CASCADE,  
        FOREIGN KEY (ServiceName) REFERENCES Work(ServiceName) ON DELETE CASCADE  
ON UPDATE CASCADE,  
        FOREIGN KEY (BarracksName) REFERENCES Barracks(BarracksName) ON DELETE  
CASCADE ON UPDATE CASCADE  
);
```

```
CREATE TABLE Unit (  
    UnitName VARCHAR(255) PRIMARY KEY,  
    BudgetAllocated INTEGER NOT NULL,  
    CommandingOfficerID INTEGER,  
    FOREIGN KEY (CommandingOfficerID) REFERENCES Personnel(ID) ON DELETE  
CASCADE ON UPDATE CASCADE  
);
```

```
CREATE TABLE Barracks (  
    BarracksName VARCHAR(50) PRIMARY KEY,  
    Capacity INTEGER NOT NULL,  
    Location VARCHAR(255) NOT NULL,  
    Occupied INTEGER NOT NULL  
);
```

```
CREATE TABLE Equipment (  
    EquipID INTEGER PRIMARY KEY,  
    Quantity NOT NULL,  
    Name VARCHAR(255) NOT NULL,  
    Category VARCHAR(255) NOT NULL,  
    PricePerUnit INTEGER NOT NULL  
);
```

```
CREATE TABLE Maintenance (  
    MaintenaceID Primary Key,  
    StartDate DATE ,  
    EndDate DATE NOT NULL,  
    EquipID INTEGER,  
    Quantity INTEGER NOT NULL,  
    FOREIGN KEY (EquipID) REFERENCES Equipment(EquipID) ON DELETE CASCADE ON  
UPDATE CASCADE  
);
```

```
CREATE TABLE UnitusesEquipment (  
    EquipID INTEGER,  
    Quantity INTEGER NOT NULL,  
    UnitName VARCHAR(255),  
    PRIMARY KEY (EquipID, UnitName),  
    FOREIGN KEY (EquipID) REFERENCES Equipment(EquipID) ON DELETE CASCADE ON  
UPDATE CASCADE,
```

```
        FOREIGN KEY (UnitName) REFERENCES Unit(UnitName) ON DELETE CASCADE ON  
UPDATE CASCADE  
);
```

```
CREATE TABLE Storage (  
    Location VARCHAR(255) PRIMARY KEY,  
    State VARCHAR(50) NOT NULL,  
    Status VARCHAR(255) NOT NULL  
);
```

```
CREATE TABLE Equipment_Storage (  
    EquipID INTEGER,  
    Location VARCHAR(255),  
    Quantity INTEGER NOT NULL,  
    PRIMARY KEY (EquipID, Location),  
    FOREIGN KEY (EquipID) REFERENCES Equipment(EquipID) ON DELETE CASCADE ON  
UPDATE CASCADE,  
    FOREIGN KEY (Location) REFERENCES Storage(Location) ON DELETE CASCADE ON  
UPDATE CASCADE  
);
```

```
CREATE TABLE Subunit (  
    SubunitName VARCHAR(255) PRIMARY KEY,  
    CommandingOfficerID INTEGER,  
    UnitName VARCHAR(255),
```

```
        FOREIGN KEY (CommandingOfficerID) REFERENCES Personnel(ID) ON DELETE  
CASCADE ON UPDATE          CASCADE,  
        FOREIGN KEY (UnitName) REFERENCES Unit(UnitName) ON DELETE CASCADE ON  
UPDATE CASCADE  
);
```

```
CREATE TABLE Logistics (  
    Route VARCHAR(255),  
    ResourcesTransferred VARCHAR(255) NOT NULL,  
    Date DATE,  
    UnitName VARCHAR(255),  
    FOREIGN KEY (UnitName) REFERENCES Unit(UnitName) ON DELETE CASCADE ON  
UPDATE CASCADE,  
    PRIMARY KEY (Date, UnitName)  
);
```

```
CREATE TABLE LogisticsVehicles  
    VehicleNo INTEGER PRIMARY KEY,  
    Type VARCHAR(255) NOT NULL,  
    Name VARCHAR(255) NOT NULL,  
    Availability VARCHAR(255) NOT NULL  
);
```

```
CREATE TABLE VehiclesusedinLogistics (  

```

```

    VehicleNo INTEGER,
    Route VARCHAR(255),
    Date DATE,
    PRIMARY KEY (Route, Date, VehicleNo),
    FOREIGN KEY (VehicleNo) REFERENCES LogisticsVehicles(VehicleNo) ON DELETE
    CASCADE ON UPDATE CASCADE,
    FOREIGN KEY (Route) REFERENCES Logistics(Route) ON DELETE CASCADE ON
    UPDATE CASCADE
);

```

```

CREATE TABLE TrainingRecords
(
    StartDate DATE,
    EndDate DATE NOT NULL,
    SpecialAbilityFound VARCHAR(255),
    TrainingCampName VARCHAR(255) NOT NULL,
    PersonnelID INT,
    FOREIGN KEY(PersonnelID) REFERENCES Personnel(ID) ON DELETE CASCADE ON
    UPDATE CASCADE,
    PRIMARY KEY(PersonnelID, StartDate)
);

```

```

CREATE TABLE Work (
    ServiceName VARCHAR(50) PRIMARY KEY,
    Salary INTEGER NOT NULL
);

```

```

CREATE TABLE Awarded (
    Reason varchar(255) NOT NULL,
    Year integer NOT NULL,
    AwardName varchar(255),
    PersonnelID integer,
    FOREIGN KEY (PersonnelID) REFERENCES Personnel(ID) ON DELETE CASCADE ON
UPDATE CASCADE,
    PRIMARY KEY (PersonnelID, AwardName)
);

```

```

CREATE TABLE Mission (
    Missioncode INTEGER PRIMARY KEY,
    Outcome VARCHAR(255) NOT NULL,
    Details VARCHAR(255) NOT NULL,
    LeaderID INTEGER,
    FOREIGN KEY (LeaderID) REFERENCES Personnel (ID) ON DELETE CASCADE ON
UPDATE CASCADE
);

```

```

CREATE TABLE PersonAssociatedwithMission
(
    FinalStatusforpers VARCHAR(255) NOT NULL,
    PersonID INT,
    MissionCode INT,

```



```
    FOREIGN KEY (PersonID) REFERENCES Personnel(ID) ON DELETE CASCADE ON  
UPDATE CASCADE,
```

```
    FOREIGN KEY (MissionCode) REFERENCES Mission(MissionCode) ON DELETE  
CASCADE ON UPDATE CASCADE,
```

```
    PRIMARY KEY (PersonID, MissionCode)
```

```
);
```

```
CREATE TABLE War (
```

```
    Region VARCHAR(255),
```

```
    StartDate DATE,
```

```
    EndDate DATE NOT NULL,
```

```
    PRIMARY KEY (Region, StartDate)
```

```
);
```

```
CREATE TABLE StrategicLocation (
```

```
    Location VARCHAR(255) PRIMARY KEY,
```

```
    Region VARCHAR(255) REFERENCES War(Region) ON DELETE CASCADE ON UPDATE  
CASCADE,
```

```
);
```

```
CREATE TABLE pers_is_inawar
```

```
(
```

```
    Status VARCHAR(255) NOT NULL,
```

```
    ID INT Primary Key,
```

```
    Location VARCHAR(255),
```

```
        FOREIGN KEY (ID) REFERENCES Personnel(ID) ON DELETE CASCADE ON UPDATE  
CASCADE,  
        FOREIGN KEY (Location) REFERENCES StrategicLocation(Location) ON DELETE  
CASCADE ON UPDATE CASCADE  
);
```

```
CREATE TABLE IntelligenceRecords  
(  
    IntelRecordName VARCHAR(255) PRIMARY KEY,  
    Details VARCHAR(255) NOT NULL  
);
```

```
CREATE TABLE MissionUsesIntelligenceRecords  
(  
    MissionCode INTEGER,  
    Name VARCHAR(100),  
    FOREIGN KEY (MissionCode) REFERENCES Mission(MissionCode) ON DELETE  
CASCADE ON UPDATE CASCADE,  
    FOREIGN KEY (Name) REFERENCES IntelligenceRecords(IntelRecordName) ON  
DELETE CASCADE ON UPDATE CASCADE,  
    PRIMARY KEY (MissionCode, Name)  
);
```

```
CREATE TABLE Dependents  
(
```

```

    DependentName VARCHAR(100) PRIMARY KEY,
    Gender VARCHAR(10) NOT NULL,
    DateOfBirth DATE NOT NULL,
    Relationship VARCHAR(50) NOT NULL,
    PersonnelID INT,
    FOREIGN KEY (PersonnelID) REFERENCES Personnel(ID) ON DELETE CASCADE ON
    UPDATE CASCADE,
    PRIMARY KEY (PersonnelID, DependentName)
);

```

```

CREATE TABLE EquipmentManufactured (
    EquipName VARCHAR(255) PRIMARY KEY,
    DeliveryDate DATE NOT NULL,
    Quantity INTEGER NOT NULL
);

```

```

CREATE TABLE UnitOrderedEquipment (
    UnitName VARCHAR(255),
    EquipName VARCHAR(255),
    FOREIGN KEY (UnitName) REFERENCES Unit(UnitName) ON DELETE CASCADE ON
    UPDATE CASCADE,
    FOREIGN KEY (EquipName) REFERENCES EquipmentManufactured(EquipName) ON
    DELETE CASCADE ON UPDATE CASCADE,
    PRIMARY KEY (UnitName, EquipName)
);

```