Legal Management System
Group 1

DDL Statements

MC212: Database Management Systems

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User

```sql
CREATE TABLE "User" (
    User_ID VARCHAR(10) PRIMARY KEY,
    Password VARCHAR(8) NOT NULL,
    CONSTRAINT user_id_format
        CHECK (
            (User_ID LIKE 'IL_____') OR
            (User_ID LIKE 'AL_____') OR
            (User_ID LIKE 'MP_____') OR
            (User_ID LIKE 'SJ_____') OR
            (User_ID LIKE 'JU_____') OR
            (User_ID LIKE 'CL_____') OR
            (User_ID LIKE 'PT_____') OR
            (User_ID LIKE 'FR_____') OR
            (User_ID LIKE 'AC_____') OR
            (User_ID LIKE 'AM_____')
        ),
    CONSTRAINT password_format
        CHECK (
            LENGTH(Password) = 8
            AND Password SIMILAR TO '%[a-z]%'
            AND Password SIMILAR TO '%[A-Z]%'
            AND Password SIMILAR TO '%[0-9]%'
            AND Password SIMILAR TO '%[#|!|@|$|%|^|&|*]%'
        )
);
```

Case

```sql
CREATE TABLE "Case" (
    Case_ID VARCHAR(8) PRIMARY KEY,
    Case_Status VARCHAR NOT NULL DEFAULT 'Not_Started' CHECK
        (Case_Status IN ('Not_Started', 'Ongoing', 'Closed')),
    Case_Result VARCHAR,
    Judge_ID VARCHAR(10) NOT NULL CHECK (Judge_ID LIKE 'JU_____'),
    Case_Details VARCHAR,
    Defending_Lawyer_ID VARCHAR(10) CHECK (Defending_Lawyer_ID LIKE
        'IL_____' OR Defending_Lawyer_ID LIKE 'AL_____' OR
        Defending_Lawyer_ID LIKE 'MP_____' OR Defending_Lawyer_ID
        LIKE 'SJ_____'),
    Defendant_ID VARCHAR(10) NOT NULL CHECK (Defendant_ID LIKE
        'CL_____'),
    Accuser_ID VARCHAR(10) NOT NULL CHECK (Accuser_ID LIKE
        'CL_____'),
    Prosecuting_Lawyer_ID VARCHAR(10) CHECK (Prosecuting_Lawyer_ID LIKE
        'IL_____' OR Prosecuting_Lawyer_ID LIKE 'AL_____' OR
        Prosecuting_Lawyer_ID LIKE 'ML_____' OR Prosecuting_Lawyer_ID
        LIKE 'SJ_____'),
    CONSTRAINT check_case_status_for_result CHECK (
        (Case_Status = 'Closed' AND Case_Result IS NOT NULL) OR
        (Case_Status <> 'Closed')
    ),
    CONSTRAINT fk_lawyer_defending FOREIGN KEY (Defending_Lawyer_ID)
        REFERENCES "Lawyer" (ID),
```

```
        CONSTRAINT fk_lawyer_prosecuting FOREIGN KEY
            (Prosecuting_Lawyer_ID) REFERENCES "Lawyer" (ID),
        CONSTRAINT fk_client_defendant FOREIGN KEY (Defendant_ID)
            REFERENCES "Client" (ID),
        CONSTRAINT fk_client_accuser FOREIGN KEY (Accuser_ID) REFERENCES
            "Client" (ID)
);
```

Case_Type

```
CREATE TABLE "Case_Type" (
    Case_ID VARCHAR(8) REFERENCES "Case" (Case_ID) PRIMARY KEY,
    Case_Type VARCHAR NOT NULL CHECK (Case_Type IN ('Criminal',
        'Civil', 'Family'))
);
```

Lawyer

```
CREATE TABLE "Lawyer" (
    ID VARCHAR(10) PRIMARY KEY,
    Email_ID VARCHAR NOT NULL,
    Name VARCHAR NOT NULL,
    Education VARCHAR NOT NULL,
    Salary NUMERIC NOT NULL,
    License_Year INTEGER NOT NULL,
    Experience INTEGER NOT NULL,
    CONSTRAINT id_format
        CHECK (
            (ID LIKE 'IL_____' OR ID LIKE 'AL_____' OR ID LIKE
                'ML_____' OR ID LIKE 'SJ_____')
            AND SUBSTRING(ID FROM 3) SIMILAR TO '[0-9]{8}'
        ),
    CONSTRAINT fk_user_lawyer FOREIGN KEY (ID) REFERENCES "User"
        (User_ID)
);
```

Lawyer_Area_Of_Expertise

```
CREATE TABLE "Lawyer_Area_Of_Expertise" (
    ID VARCHAR(10) REFERENCES "Lawyer" (ID),
    Area_Of_Expertise VARCHAR,
    CONSTRAINT id_format
        CHECK (
            (ID LIKE 'IL_____' OR ID LIKE 'AL_____' OR ID LIKE
                'MP_____' OR ID LIKE 'SJ_____')
            AND SUBSTRING(ID FROM 3) SIMILAR TO '[0-9]{8}'
        ),
    CONSTRAINT pk_lawyer_area_expertise PRIMARY KEY (ID,
        Area_Of_Expertise),
    CONSTRAINT check_area_of_expertise
        CHECK (Area_Of_Expertise IN ('Criminal', 'Civil', 'Family'))
);
```

Paralegals_and_Trainees

```
CREATE TABLE "Paralegals_and_Trainees" (
    ID VARCHAR(10) PRIMARY KEY,
    Name VARCHAR NOT NULL,
    Education VARCHAR NOT NULL,
    Salary NUMERIC NOT NULL,
    Experience INTEGER NOT NULL,
    CONSTRAINT id_format
        CHECK (ID LIKE 'PT_____' AND SUBSTRING(ID FROM 3) SIMILAR TO
            '[0-9]{8}'),
    CONSTRAINT fk_user_paralegals_trainees FOREIGN KEY (ID) REFERENCES
        "User" (User_ID)
);
```

PNT_Independent_Lawyer

```
CREATE TABLE "PNT_Independent_Lawyer" (
    PNT_ID VARCHAR(10) REFERENCES "Paralegals_and_Trainees" (ID),
    Independent_Lawyer_ID VARCHAR(10) REFERENCES "Lawyer" (ID),
    CONSTRAINT pnt_id_format
        CHECK (PNT_ID LIKE 'PT_____'),
    CONSTRAINT independent_lawyer_id_format
        CHECK (Independent_Lawyer_ID LIKE 'IL_____'),
    CONSTRAINT pk_pnt_independent_lawyer PRIMARY KEY (PNT_ID,
        Independent_Lawyer_ID)
);
```

PNT_Firm

```
CREATE TABLE "PNT_Firm" (
    PNT_ID VARCHAR(10) REFERENCES "Paralegals_and_Trainees" (ID),
    Firm_ID VARCHAR(10) REFERENCES "Firm" (ID),
    CONSTRAINT pnt_id_format
        CHECK (PNT_ID LIKE 'PT_____' AND SUBSTRING(PNT_ID FROM 3)
            SIMILAR TO '[0-9]{8}'),
    CONSTRAINT firm_id_format
        CHECK (Firm_ID LIKE 'FR_____' AND SUBSTRING(Firm_ID FROM 3)
            SIMILAR TO '[0-9]{8}'),
    CONSTRAINT pk_pnt_firm PRIMARY KEY (PNT_ID, Firm_ID)
);
```

Client

```
CREATE TABLE "Client" (
    ID VARCHAR(10) REFERENCES "User" (User_ID),
    Name VARCHAR NOT NULL,
    Client_Details VARCHAR,
    CONSTRAINT id_format
        CHECK (ID LIKE 'CL_____'),
    CONSTRAINT pk_client PRIMARY KEY (ID)
);
```

Client_Type

```
CREATE TABLE "Client_Type" (
    ID VARCHAR(10) REFERENCES "Client" (ID) PRIMARY KEY,
    Client_Type VARCHAR NOT NULL CHECK (Client_Type IN ('Individual',
        'Company', 'Govt')),
    CONSTRAINT id_format
        CHECK (ID LIKE 'CL_____' AND SUBSTRING(ID FROM 3) SIMILAR TO
            '[0-9]{8}')
);
```

Judge

```
CREATE TABLE "Judge" (
    Judge_ID VARCHAR(10) PRIMARY KEY,
    Name VARCHAR NOT NULL,
    Experience INTEGER NOT NULL,
    Salary NUMERIC NOT NULL,
    License_Year INTEGER NOT NULL,
    Education VARCHAR NOT NULL,
    CONSTRAINT id_format
        CHECK (Judge_ID LIKE 'JU_____' AND SUBSTRING(Judge_ID FROM
            3) SIMILAR TO '[0-9]{8}'),
    CONSTRAINT fk_user_judge FOREIGN KEY (Judge_ID) REFERENCES "User"
        (User_ID)
);
```

Task

```
CREATE TABLE "Task" (
    Task_From_ID VARCHAR(10) REFERENCES "Lawyer" (ID),
    Task_To_ID VARCHAR(10) REFERENCES "User" (User_ID),
    Task_No INTEGER PRIMARY KEY,
    Task_Status VARCHAR CHECK (Task_Status IN ('Task_Assigned',
        'Task_In_Progress', 'Task_Completed')),
    Task_Description VARCHAR,
    CONSTRAINT task_from_id_format
        CHECK (Task_From_ID LIKE ANY ('{IL_____, AL_____,
            MP_____, SJ_____}') AND SUBSTRING(Task_From_ID FROM 3)
            SIMILAR TO '[0-9]{8}'),
    CONSTRAINT task_to_id_format
        CHECK (Task_To_ID LIKE ANY ('{AL_____, PT_____}') AND
            SUBSTRING(Task_To_ID FROM 3) SIMILAR TO '[0-9]{8}')
);
```

Task_Case

```
CREATE TABLE "Task_Case" (
    Task_From_ID VARCHAR(10) REFERENCES "Lawyer" (ID),
    Task_To_ID VARCHAR(10) REFERENCES "User" (ID),
    Task_No INTEGER,
    Case_ID VARCHAR(8) REFERENCES "Case" (Case_ID),
    CONSTRAINT task_from_id_format
        CHECK (Task_From_ID LIKE ANY ('{IL_____, AL_____,
            MP_____, SJ_____}')),
```

```
        CONSTRAINT task_to_id_format
            CHECK (Task_To_ID LIKE ANY ('{AL_____, PT_____}')),
        CONSTRAINT pk_task_case PRIMARY KEY (Task_From_ID, Task_To_ID,
            Task_No, Case_ID)
);
```

Firm

```
CREATE TABLE "Firm" (
    Firm_ID VARCHAR(10) PRIMARY KEY,
    Firm_Name VARCHAR NOT NULL,
    Establishment_Year INTEGER NOT NULL,
    Expenditure NUMERIC NOT NULL,
    CONSTRAINT id_format
        CHECK (Firm_ID LIKE 'FR_____' AND SUBSTRING(Firm_ID FROM 3)
            SIMILAR TO '[0-9]{8}'),
    CONSTRAINT fk_user_firm FOREIGN KEY (Firm_ID) REFERENCES "User"
        (User_ID)
);
```

Bar_Council

```
CREATE TABLE "Bar_Council" (
    ID VARCHAR(10) PRIMARY KEY,
    Name VARCHAR NOT NULL,
    CONSTRAINT id_format
        CHECK (ID LIKE ANY ('{AC_____, AM_____}') AND
            SUBSTRING(ID FROM 3) SIMILAR TO '[0-9]{8}'),
    CONSTRAINT fk_user_bar_council FOREIGN KEY (ID) REFERENCES "User"
        (User_ID)
);
```

Client_Case_and_PNT_Assistance_Requests

```
CREATE TABLE "Client_Case_and_PNT_Assistance_Requests" (
    Request_From_ID VARCHAR(10) REFERENCES "User" (User_ID),
    Request_To_ID VARCHAR(10) REFERENCES "Lawyer" (ID),
    Case_ID VARCHAR(8) REFERENCES "Case" (Case_ID),
    Request_Type VARCHAR NOT NULL CHECK (Request_Type IN
        ('Case_Request', 'Assistance_Request')),
    Request_Status VARCHAR NOT NULL CHECK (Request_Status IN
        ('Request_Sent', 'Request_Accepted', 'Request_Rejected')),
    CONSTRAINT request_from_id_format
        CHECK (Request_From_ID LIKE 'CL_____' OR Request_From_ID
            LIKE 'PT_____'),
    CONSTRAINT request_to_id_format
        CHECK (Request_To_ID LIKE 'IL_____' OR Request_To_ID LIKE
            'AL_____' OR Request_To_ID LIKE 'MP_____' OR
            Request_To_ID LIKE 'SJ_____'),
    CONSTRAINT pk_client_case_pnt_requests PRIMARY KEY
        (Request_From_ID, Request_To_ID, Case_ID)
);
```

Joining_Requests

```
CREATE TABLE "Joining_Requests" (
    Request_From_ID VARCHAR(10) REFERENCES "User" (User_ID),
    Request_To_ID VARCHAR(10) REFERENCES "Lawyer" (ID),
    Request_Status VARCHAR NOT NULL CHECK (Request_Status IN
        ('Request_Sent', 'Request_Accepted', 'Request_Rejected')),
    CONSTRAINT request_from_id_format
        CHECK (Request_From_ID LIKE 'IL_____' OR Request_From_ID
            LIKE 'PT_____'),
    CONSTRAINT request_to_id_format
        CHECK (Request_To_ID LIKE 'MP_____'),
    CONSTRAINT pk_joining_requests PRIMARY KEY (Request_From_ID,
        Request_To_ID)
);
```

General_Queries

```
CREATE TABLE "General_Queries" (
    Query_From_ID VARCHAR(10) REFERENCES "User" (User_ID),
    Query_No INTEGER,
    Query_Handler_ID VARCHAR(10) REFERENCES "Bar_Council" (ID),
    Query_Status VARCHAR NOT NULL CHECK (Query_Status IN ('Open',
        'Closed')),
    Query_Description VARCHAR,
    CONSTRAINT query_from_id_format
        CHECK (Query_From_ID LIKE ANY ('{IL_____, AL_____,
            MP_____, SJ_____, JU_____, CL_____, PT_____,
            FR_____, AC_____, AM_____}')),
    CONSTRAINT query_handler_id_format
        CHECK (Query_Handler_ID LIKE 'AC_____'),
    CONSTRAINT pk_general_queries PRIMARY KEY (Query_No)
);
```

License_Request_Queries

```
CREATE TABLE "License_Request_Queries" (
    Query_From_ID VARCHAR(10) REFERENCES "User" (User_ID),
    Query_Handler_ID VARCHAR(10) NOT NULL REFERENCES "Bar_Council" (ID),
    Query_Status VARCHAR NOT NULL CHECK (Query_Status IN ('Accepted',
        'Rejected')),
    Name VARCHAR NOT NULL,
    Resume VARCHAR NOT NULL,
    CLAT_Score NUMERIC NOT NULL,
    CONSTRAINT query_from_id_format
        CHECK (Query_From_ID LIKE ANY ('{IL_____, AL_____,
            MP_____, SJ_____, JU_____, CL_____,
            PT_____}')),
    CONSTRAINT query_handler_id_format
        CHECK (Query_Handler_ID LIKE 'AC_____'),
    CONSTRAINT pk_license_request_queries PRIMARY KEY (Query_From_ID)
);
```

Manages

```
CREATE TABLE "Manages" (
    Manager_ID VARCHAR(10) REFERENCES "Lawyer" (ID),
    Firm_ID VARCHAR(10) REFERENCES "Firm" (Firm_ID),
    CONSTRAINT pk_manages PRIMARY KEY (Manager_ID, Firm_ID)
);
```

Supervises

```
CREATE TABLE "Supervises" (
    Supervisor_ID VARCHAR(10) REFERENCES "Bar_Council" (ID),
    Supervisee_ID VARCHAR(10) REFERENCES "User" (User_ID),
    CONSTRAINT pk_supervises PRIMARY KEY (Supervisor_ID, Supervisee_ID)
);
```

Associated

```
CREATE TABLE "Associated" (
    Associated_ID VARCHAR(10) REFERENCES "Paralegals_and_Trainees" (ID),
    Associated_With_ID VARCHAR(8) REFERENCES "Case" (Case_ID),
    CONSTRAINT pk_associated PRIMARY KEY (Associated_ID,
        Associated_With_ID)
);
```

Hires

```
CREATE TABLE "Hires" (
    Hires_From_ID VARCHAR(10) REFERENCES "Client" (ID),
    Hires_To_ID VARCHAR(10) REFERENCES "User" (User_ID),
    CONSTRAINT pk_hires PRIMARY KEY (Hires_From_ID, Hires_To_ID)
);
```