**Database Design**

In the ERD assignment, you designed the new database for City Jail. Now you need to create all the tables for the database.

First, create all the tables using the information outlined in

Section A.

Second, make the modifications outlined in Section B.

Save all SQL statements used to accomplish these tasks.

**Section A**

**Coding key for selected columns**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Table | Column | Data Description | Length | Scale | Default Value |
| Aliases | Alias\_iD  Criminal\_ID  Alias | Numeric  Numeric  character | 10 |  |  |
| Criminals | Criminal\_ID  Last  First  Street  City  Zip  Phone  V\_status  P\_status | Numeric  Variable character  Variable character  Variable character  Variable character  Fixed character  Fixed character  Fixed character  Fixed character | 15  10  30  20  5  10  1  1 |  | N for (NO)  N for (NO) |
| Crimes | Crime\_ID  Criminal\_ID  Classification  Status  Hearing\_date  Appeal\_cut\_date | Numeric  Numeric  Fixed character  Fixed character  Date  Date | 1  2 |  |  |
| Sentences | Sentence\_ID  Criminal\_ID  Prob\_ID  Violations  Type  Start\_date  End\_date | Numeric  Numeric  Numeric  Numeric  Fixed character  Date  Date | 1 |  |  |
| Prob\_officers | Prob\_ID  Last  First  Street  City  State  Zip  Phone  Email  Status | Numeric  Variable character  Variable character Variable character Variable character Fixed character  Fixed character  Fixed character  Variable character  Fixed character | 15  10  30  20  2  5  10  30  1 |  | A for (Active) |
| Crime charges | Charge\_ID  Crime\_ID  Crime\_code Charge\_status  Fine\_amount  Court\_fee  Amount\_paid  Pay\_due\_date | Numeric  Numeric  Numeric  Fixed character  Decimal  Decimal  Decimal  Date | 2  7  7  7 | 2  2  2 |  |
| Crime\_officers | Crime\_ID  Officer\_ID | Numeric  Numeric |  |  |  |
| Officers | Officer\_ID  Last  First  Badge  Precinct  Phone  Status | Numeric  Variable character  Variable character  Variable character Fixed character  Fixed character  Fixed character | 15  10  14  4  10  1 |  | A for (Active) |
| Appeals | Appeal\_ID  Crime\_ID Filing\_date Hearing\_date Status | Numeric  Numeric  Date  Date  Fixed character | 1 |  | P for (Pending) |
| Crime\_codes | Crime\_code  Code\_description | Numeric  Variable character | 30 |  |  |

|  |  |  |
| --- | --- | --- |
| Table | Column | Possible Values |
| Criminals | V\_status | Y (Yes), N (No) |
| Criminals | P\_status | Y (Yes), N (No) |
| Crimes | Classification | F (Felony), M (Misdemeanor), O (Other), U (Undefined) |
| Crimes | Status | CL (Closed), CA (Can Appeal), IA (In Appeal) |
| Sentences | Type | J ( Jail Period), H (House Arrest), P (Probation) |
| Prob\_officers | Status | A (Active), I (Inactive) |
| Crime\_charges | Charge\_status | PD (Pending), GL (Guilty), NG (Not Guilty) |
| Officers | Status | A (Active), I (Inactive) |
| Appeals | Status | P (Pending), A (Approved), D (Disapproved) |

Section B

• Add a default value of U for the Classification column of the Crimes table.

• Add a column named Date\_Recorded to the Crimes table. This column needs to hold date values and should be set to the current date by default.

• Add a column to the Prob\_officers table to contain the pager number for each officer. The column needs to accommodate a phone number, including area code. Name the column Pager#.

• Change the Alias column in the Aliases table to accommodate up to 20 characters.

**Place your code here**

**NICHOLAS DHANNIE**

**ALIASES**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Aliases](

    [Alias\_ID] [numeric](18, 0) NULL,

    [Criminal\_ID] [numeric](18, 0) NULL,

    [Alias] [varchar](20) NULL

) ON [PRIMARY]

GO

**APPEALS**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Appeals](

    [Appeal\_ID] [numeric](18, 0) NULL,

    [Crime\_ID] [numeric](18, 0) NULL,

    [Filing\_date] [date] NULL,

    [Hearing\_date] [date] NULL,

    [Status] [char](1) NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Appeals] ADD  DEFAULT ('P') FOR [Status]

GO

**Crime\_charges**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Crime\_charges](

    [Charge\_ID] [numeric](18, 0) NULL,

    [Crime\_ID] [numeric](18, 0) NULL,

    [Crime\_code] [numeric](18, 0) NULL,

    [Charge\_status] [char](2) NULL,

    [Fine\_amount] [decimal](7, 2) NULL,

    [Court\_fee] [decimal](7, 2) NULL,

    [Amount\_paid] [decimal](7, 2) NULL,

    [Pay\_due\_date] [date] NULL

) ON [PRIMARY]

GO

**Crime\_codes**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Crime\_codes](

    [Crime\_code] [numeric](18, 0) NULL,

    [Code\_description] [varchar](30) NULL

) ON [PRIMARY]

GO

**Crime\_officers**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Crime\_officers](

    [Crime\_ID] [numeric](18, 0) NULL,

    [Officer\_ID] [numeric](18, 0) NULL

) ON [PRIMARY]

GO

**CRIMES**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Crimes](

    [Crime\_ID] [numeric](18, 0) NULL,

    [Criminal\_ID] [numeric](18, 0) NULL,

    [Classification] [char](1) NULL,

    [Status] [char](2) NULL,

    [Hearing\_date] [date] NULL,

    [Appeal\_cut\_date] [date] NULL,

    [Date\_Recorded] [date] NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Crimes] ADD  DEFAULT ('U') FOR [Classification]

GO

ALTER TABLE [dbo].[Crimes] ADD  DEFAULT (getdate()) FOR [Date\_Recorded]

GO

**Criminals**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Criminals](

    [Criminal\_ID] [numeric](18, 0) NULL,

    [Last] [varchar](15) NULL,

    [First] [varchar](10) NULL,

    [Street] [varchar](30) NULL,

    [City] [varchar](20) NULL,

    [Zip] [char](5) NULL,

    [Phone] [char](10) NULL,

    [V\_status] [char](1) NULL,

    [P\_status] [char](1) NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Criminals] ADD  DEFAULT ('N') FOR [V\_status]

GO

ALTER TABLE [dbo].[Criminals] ADD  DEFAULT ('N') FOR [P\_status]

GO

**Officers**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Officers](

    [Officer\_ID] [numeric](18, 0) NULL,

    [Last] [varchar](15) NULL,

    [First] [varchar](10) NULL,

    [Badge] [varchar](14) NULL,

    [Precinct] [char](4) NULL,

    [Phone] [char](10) NULL,

    [Status] [char](1) NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Officers] ADD  DEFAULT ('A') FOR [Status]

GO

**Prob\_officers**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Prob\_officers](

    [Prob\_ID] [numeric](18, 0) NULL,

    [Last] [varchar](15) NULL,

    [First] [varchar](10) NULL,

    [Street] [varchar](30) NULL,

    [City] [varchar](20) NULL,

    [State] [varchar](2) NULL,

    [Zip] [char](5) NULL,

    [Phone] [char](10) NULL,

    [Email] [char](30) NULL,

    [Status] [varchar](1) NULL,

    [Pager#] [char](15) NULL

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[Prob\_officers] ADD  DEFAULT ('A') FOR [Status]

GO

**Sentences**

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[Sentences](

    [Sentence\_ID] [numeric](18, 0) NULL,

    [Criminal\_ID] [numeric](18, 0) NULL,

    [Prob\_ID] [numeric](18, 0) NULL,

    [Violations] [numeric](18, 0) NULL,

    [Type] [char](1) NULL,

    [Start\_date] [date] NULL,

    [End\_date] [date] NULL

) ON [PRIMARY]

GO