**SQL PROJECT 1**

**Project Instructions**

**NOTE: THIS PROJECT IS TO BE COMPLETED IN ITS INDIVIDUALLY (THIS IS NOT A GROUP PROJECT)**

| **Step** | **Instructions** | **Complete?** |
| --- | --- | --- |
| (1) | Construct an E-R model for the new database named City Jail.  Now you will need to create all of the tables for the database.  First, create all of the tables using the information outlined in Step 2.  Second, make the modifications outlined in Step 3.  You should create two SQL files (one each for Step 2 and Step 3) as your deliverables. | **☐** |

| **Step** | **Instructions** | **Complete?** |
| --- | --- | --- |
| (2) | In an SQL file (a simple text file that you can rename to the .sql file type), type all of the SQL statements required to create all of the following tables and columns.   | **TABLE** | **COLUMN** | **DATA DESCRIPTION** | **LENGTH** | **SCALE** | **DEFAULT VALUE** | | --- | --- | --- | --- | --- | --- | | Aliases | Alias\_ID | Numeric | 6 | - | - | | - | Criminal\_ID | Numeric | 6 | 0 | - | | - | Alias | Variable Character | 10 | - | - | |  | | | | | | | Criminals | Criminal\_ID | Numeric | 6 | 0 | - | | - | Last | Variable Character | 15 | - | - | | - | First | Variable Character | 10 | - | - | | - | Street | Variable Character | 30 | - | - | | - | City | Variable Character | 30 | - | - | | - | State | Fixed Character | 2 | - | - | | - | Zip | Fixed Character | 5 | - | - | | - | Phone | Fixed Character | 10 | - | - | | - | V\_status | Fixed Character | 1 | - | N (for No) | | - | P\_status | Fixed Character | 1 | - | N (for No) | |  | | | | | | | Crimes | Crime\_ID | Numeric | 9 | 0 | - | | - | Criminal\_ID | Numeric | 6 | 0 | - | | - | Classification | Fixed Character | 1 | - | - | | - | Date\_charged | Date | - | - | - | | - | Status | Fixed Character | 2 | - | - | | - | Hearing Date | Date | - | - | - | | - | Appeal\_cut\_date | Date | - | - | - | |  | | | | | | | Sentences | Sentence\_ID | Numeric | 6 | - | - | | - | Criminal\_ID | Numeric | 6 | - | - | | - | Type | Fixed Character | 1 | - | - | | - | Prob\_ID | Numeric | 5 | - | - | | - | Start\_date | Date | - | - | - | | - | End\_date | Date | - | - | - | | - | Violations | Numeric | 3 | - | - | |  | | | | | | | Prob\_officers | Prob\_ID | Numeric | 3 | - | - | | - | Last | Variable Character | 15 | - | - | | - | First | Variable Character | 10 | - | - | | - | Street | Variable Character | 30 | - | - | | - | City | Variable Character | 20 | - | - | | - | State | Fixed Character | 2 | - | - | | - | Zip | Fixed Character | 5 | - | - | | - | Phone | Fixed Character | 10 | - | - | | - | Email | Variable Character | 30 | - | - | | - | Status | Fixed Character | 1 | - | A (for Active) | |  | | | | | | | Crime\_charges | Charge\_ID | Numeric | 10 | 0 | - | | - | Crime\_ID | Numeric | 9 | 0 | - | | - | Crime\_code | Numeric | 3 | 0 | - | | - | Charge\_status | Fixed Character | 2 | - | - | | - | Fine\_amount | Numeric | 7 | 2 | - | | - | Court\_fee | Numeric | 7 | 2 | - | | - | Amount\_paid | Numeric | 7 | 2 | - | | - | Pay\_due\_date | Date | - | - | - | |  | | | | | | | Crime\_officers | Crime\_ID | Numeric | 9 | 0 | - | | - | Officer\_ID | Numeric | 8 | 0 | - | |  |  |  |  |  |  | | Officers | Officer\_ID | Numeric | 8 | 0 | - | | - | Last | Variable Character | 15 | - | - | | - | First | Variable Character | 10 | - | - | | - | Precinct | Fixed Character | 4 | - | - | | - | Badge | Variable Character | 14 | - | - | | - | Phone | Fixed Character | 10 | - | - | | - | Status | Fixed Character | 1 | - | A (for Active) | |  | | | | | | | Appeals | Appeal\_ID | Numeric | 5 | - | - | | - | Crime\_ID | Numeric | 9 | 0 | - | | - | Filing\_date | Date | - | - | - | | - | Hearing\_date | Date | - | - | - | | - | Status | Fixed Character | 1 | - | P (for Pending) | |  | | | | | | | Crime\_codes | Crime\_code | Numeric | 3 | 0 | - | | - | Code\_description | 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) | | **☐** |

| **Step** | **Instructions** | **Complete?** |
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| (3) | After you have properly tested and perfected your SQL script for Step 1, write an SQL script that accomplishes each of the following listed tasks listed below:   * 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\_Number. * Change the Alias column in the Aliases table to accommodate up to 20 characters. | **☐** |

| **Step** | **Instructions** | **Complete?** |
| --- | --- | --- |
| (4) | Create the tables and columns from Step 2 and make the modifications required of Step 3. Separately, submit **both of your SQL files as .sql files in your personal folder in this** [**drive**](https://drive.google.com/drive/folders/1tr0hrhIeR90RHhC5qvUPVw43QDgLKKTP?usp=sharing) | **☐** |

**Due Date: 1 November 2024**

**Read several times to understand the task. Do not rush.**

**Remember to use comments to explain your work at all points.**

**Your work should be readable and organized.**