

Data Analyst Assignment

Instructions:

- This screening test consist of 5 questions to be done using SQL script
- Submission to be made by sharing code in .sql/.txt file
- There is no negative marking

Data and Data Structure for Q1-Q3 can be taken from <https://www.kaggle.com/AnalyzeBoston/crimes-in-boston>:

Questionnaire

1. Write a script that shows count of Auto Theft and Towed by Phase of Day(as index) vs Month(as column).

Phase of day is defined as:

Morning	=	6 a.m to 11 a.m
Noon	=	11.01 a.m to 5 p.m
Evening	=	5.01 p.m to 8 p.m
Night	=	8.01 p.m to 5.59 a.m

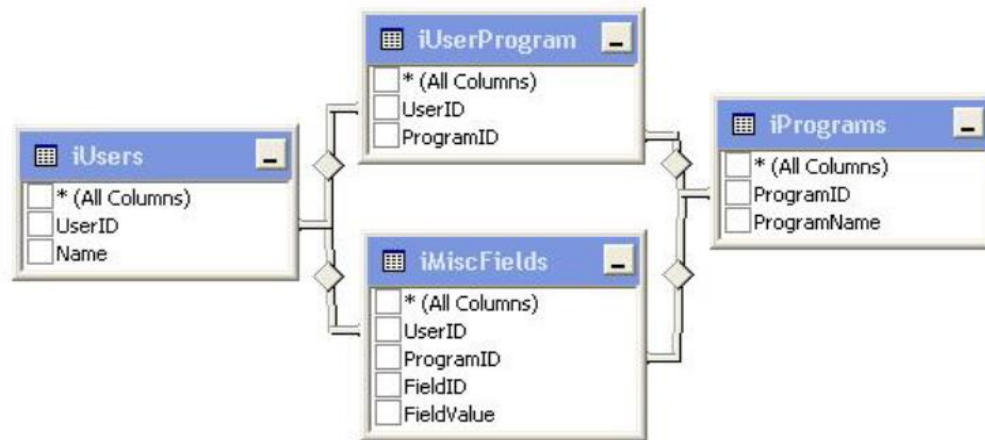
Sample Output

	Jan	Feb	March.....Dec
Morning	1	2	3.....2
Noon	3	0	2.....3
Evening	1	0	0.....4
Night	0	1	1.....5

2. Write script to get offense (full offense name provided in offense_codes.csv file) per district which has maximum occurrence in respective district
3. Add a column to data set which contains date of last incidents happened in respective district
For Example: if a state has N incidents, a column should be added to dataset with (i+1)th incident having date of ith incident in that column

Table Structure for Q4-Q5Q

Tables



4 Pull all UserID, Name, ProgramName and FieldValue whether or not they have a FieldValue assigned to that program.

5 Pull ProgramName for ALL programs and the UserID for users assigned to those programs.