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Problem Set 4

1. This data file can be found on the city of Gainesville’s Open Data page. The file is a graph of the calendar months showing the most attendance at the athletic fields from adult sports teams. The graph displays the usage over the softball field from Oct. 2012 to Sep. 2013. The first column shows the escalating calendar months and the opposite columns show the number of times the field was reserved, and the amount of money generated from the monthly reservations. Another column will show the number of adults present during the specified month.
2. To normalize this data, I plan to take the calendar months in escalating order and put them in a column titled ‘Month’, and then a follow-up column named ‘Revenue’. If necessary, I will also note the number of adults that were present during that month.

**Softball Fields**

|  |  |  |  |
| --- | --- | --- | --- |
| Month | Revenue | Attendance | |
|  |  |  | |
|  |  |  | |
|  |  |  | |
|  |  |  | |
|  |  |  |

I feel this is the most efficient way to display the data because it will clearly show how much the softball field is used. If we can successfully display this data, then you will see a vast difference in how much the softball field is used. This kind of data interpretation is important for the city of Gainesville because it will give city leaders more of a perspective on their budget for community enrichment. This could either help with surveying usage for budget cuts, budget increases, and/or effectiveness of communal outdoor influence. The **primary keys** are the months (VARCHAR) because this column will not change, it will only escalate as we document the progressing time. The **foreign keys** are the revenue amounts (DECIMALS) and the number of attendance (INTEGERS) because these columns depend on their specified primary key, which is the month it belongs to.

1. Import sqlite3

Conn = sqlite3.connect( ‘world.sqlite’)

Cur = conn.cursor()

cur.execute(‘DROP TABLE IS EXISTS Month’)

cur.execute(‘CREATE TABLE SoftballFields (Month TEXT, Revenue DECIMAL, Attendance INTEGER) ‘ )

conn.close()

1. Code above should create database file.
2. **(Extra\_Credit)** This dataset covers the California list of endangerment types based on the designation of the specific animal and the total number of species currently listed under that category. This data is useful for statistical evidence that some species are facing alarming rates of population decrease—which would be helpful for numerous studies. The table I would use is shown below.

|  |  |  |
| --- | --- | --- |
| **Endangerment Abbreviation** | **Designation** | **Total Species** |
| **TEXT** | **TEXT** | **INT** |
| **TEXT** | **TEXT** | **INT** |