Database Design

File Description Table:

Stores necessary descriptions for a curve file

|  |  |  |
| --- | --- | --- |
| Name | Characteristics | Description |
| ID | Primary key, auto increment | Unique number that has link to this data record |
| Tag | String, not null | Category of the curve file |
| Curve Name | String, not null | Name of the curve file |
| Type of Curve | String, not null | Type of the curve file |
| Creation Date | Date, not null | Date stamp of when file was uploaded |

*Note:* there will be multiple tables created according to number of tags. Thus, if a curve file had two tags, then that file description will be saved onto two different tables with same unique ID.

File Storage Table:

Stores the file itself

|  |  |  |
| --- | --- | --- |
| Name | Characteristics | Description |
| ID | Primary key, auto increment | Foreign key reference to File Description table’s ID |
| File | BLOB, not null | Stores curve file; varbinary(MAX) Image type |