AdapDif Database formats for the importing function.

The importing of data uses 3 tables.

1. **Data import meta information**
2. **Data columns**
3. **Student Data pieces**

*An example data to be imported in raw format:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Student Name** | **Student ID** | **Math Scores** | **English Scores** | **History Scores** |
| Jane Joe | 23 | 78 | 45 | 65 |
| Jim Hernandez | 34 | 34 | 67 | 77 |
| Carlos Santos | 45 | 67 | 89 | 89 |
| Kendra Brown | 56 | 89 | 34 | 90 |

**1. Data import meta information (Table name: dataImport)**

This table includes the information about imports themselves and meta information.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Description** | **parameters** |
| dataID | Unique id for the row | auto increment, primary key, integer |
| dataTitle | Title given to data in step 1 | Varchar, 255 |
| dataDate | Date given by user from step 1 | Date |
| dataType | Type of data from step 1 | text array |
| dataUser | The person who is logged in (that’s entering the data) | Integer, id of logged in user |
| dataFile | url of the file uploaded. These files are saved. | Varchar, 255 |
| dataAdded | Timestamp for when the data was added |  |
| dataUpdated | Timestamp for when this row was updated last. |  |

*Example from the raw table:*

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| dataID | dataTitle | dataDate | dataType | dataUser | dataFile | dataAdded | dataUpdated |
| 1 | Student Scores | 2014/1/4 | MAP, Scores | 24 | Files/data/st1.xls | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |

**2. Data Columns** (Table name: dataColumns)

This table has all the column information for all the data uploaded. The columns are tied to their data import session with a relationship. ***One dataImport has many dataColumns.***

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Description** | **parameters** |
| columnID | Unique id for the row | auto increment, primary key, integer |
| columnDataID | The dataImport row that this column belongs to | integer |
| columnName | Title of the column from Step 2 | varchar |
| columnAdded | Timestamp for when the column was added |  |
| columnUpdated | Timestamp for when this column was updated last. |  |

*Example from the Raw Table:*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| columnId | columnDataID | columnName | columnAdded | ColumnUpdated |
| 1 | 1 | Student Name | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |
| 2 | 1 | Student ID | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |
| 3 | 1 | Math Scores | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |
| 4 | 1 | English Scores | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |
| 5 | 1 | History Scores | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |

**3. Student information pieces (Table name: dataInfo)**

This table includes the actual data imported in individual pieces. One cell in each data table converts to a row in here.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Description** | **parameters** |
| dataInfoID | Unique id for the row | auto increment, primary key, integer |
| dataColumnID | The dataColumn row that this info belongs to | integer |
| dataStudentID | The ID of the student this data belongs to. | integer |
| dataContent | The data itself from the pertinent cell. | varchar |
| columnAdded | Timestamp for when the column was added |  |
| columnUpdated | Timestamp for when this column was updated last. |  |

*Example from the Raw Table:*

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| dataInfoID | dataColumnID | dataStudentID | dataContent | columnAdded | ColumnUpdated |
| 1 | 1 | 33455 | Jane Joe | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |
| 2 | 2 | 33455 | 23 | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |
| 3 | 3 | 33455 | 78 | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |
| 4 | 1 | 1234 | Jim Hernandez | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |
| 5 | 2 | 1234 | 34 | 2014/1/4 12:00:00 | 2014/1/4 12:00:00 |
| … | … |  | … | … | … |