**ETL Audit Balance Table Structures**

**1] ETL\_AUDIT\_LOG:** To capture the details of entire ETL execution.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Column Datatype** | **Column Description** |
| **Audit\_ID(PK)** | **Integer** | **Displays unique ID for each ETL run** |
| Start\_Time | **TimeStamp/Date** | **Displays ETL start time** |
| End\_Time | **TimeStamp/Date** | **Displays ETL end time** |
| ETL\_Status | **String** | **Displays the status of ETL(Started,in-progress,Failed)** |

**2] ETL\_JOB\_LOG:** To capture details of every Job execution in the ETL.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Column Datatype** | **Column Description** |
| **Job\_ID(PK)** | **String** | **Displays unique ID for every ETL job run.** |
| **Audit\_ID(FK)** | **Integer** | **Referenced value from ETL\_Audit\_LOG. All the jobs belonging to one complete ETL will have same the Audit\_ID .** |
| **Job\_Name** | **String** | **Displays job name.** |
| **Job\_StartTime** | **TimeStamp/Date** | **Displays job start time** |
| **Job\_EndTime** | **TimeStamp/Date** | **Displays job end time** |
| **Job\_Execution\_Status** | **String** | **Displays the execution status of the job (Success, In-Progress, Failure).** |
| **Rows\_Processed** | **Integer** | **Displays the count of rows processed from the input in the job.** |
| **Rows\_Inserted** | **Integer** | **Displays the count of rows inserted in output in the job.** |
| **Records\_Updated** | **Integer** | **Displays the count of rows updated in output in the job.** |
| **Record\_Entry\_StartTime** | **TimeStamp/Date** | **Displays the time at which this particular record entry started** |
| **Record\_Entry\_EndTime** | **TimeStamp/Date** | **Contains the time at which this particular record entry ended** |
| **Count\_Match** | **Boolean** | **Displays whether the processed and inserted records count are equal.** |

**3] ETL\_JOB\_LIST:** This table is created to capture point of failure of the ETL job.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Column Datatype** | **Column Description** |
| **Job\_Name** | **String** | **Displays the master job/ job name.** |
| **Run\_Status\_Flag** | **Integer** | **Default value is set to “0”. On successful execution of the job value is set to “1”. Value 1 in all the columns indicates the successful ETL load completion.** |

**4] ETL\_REJREC\_LOG:** Captures the rejected records from the ETL tables along with the error message, error code at job level.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Column Datatype** | **Column Description** |
| **Job\_ID** | **Integer** | **Displays the job ID** |
| **Rej\_record** | **string** | **Displays the rejected value** |
| **Error\_Message** | **String** | **Displays the error message** |
| **Errror\_code** | **String** | **Displays the error code** |
| **Error\_Time** | **Timestamp/Date** | **Displays the time at which the error occured** |

**5) ETL\_ERROR\_LOG:** Captures the details of the failed job in the ETL.

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Column Datatype** | **Column Description** |
| **Audit\_ID** | **Integer** | **Displays the Audit ID** |
| **job\_id** | **String** | **Displays the job ID** |
| **Error\_Message** | **String** | **Displays the error message** |
| **Errror\_code** | **String** | **Displays the error code** |
| **Error\_Time** | **Timestamp/Date** | **Displays the time at which the error occurred** |

**Scripts to create ABC Tables**

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