DETAIL - LEVEL DESIGN DOCUMENT

Telangana State Domestic Power Consumption Data

Azure Cloud SQL Server

**Version: 1.0**

**Created Date: 17/03/2023.**

Revision History

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| --- | --- | --- | --- |
| Version | Date | Created By | Reviewed By |
| 1.0 | 17-03-2023 | Jayachandra babu |  |
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**1**. Steps to be followed to load data to Azure Blob Storage

## 1.1 Created Storage Account and Uploaded Raw Data

Graphical user interface, application

Description automatically generated

Import the Raw Data into Source using Mapping Data Flow

Graphical user interface, application

Description automatically generated

Created Backup Folder

Graphical user interface, application, Word

Description automatically generated

Created Azure SQL Database

Graphical user interface, text, application, email

Description automatically generated

Transforms the Data to Sink using Mapping Data Flow

Graphical user interface, application

Description automatically generated

Successfully Debug the Pipeline

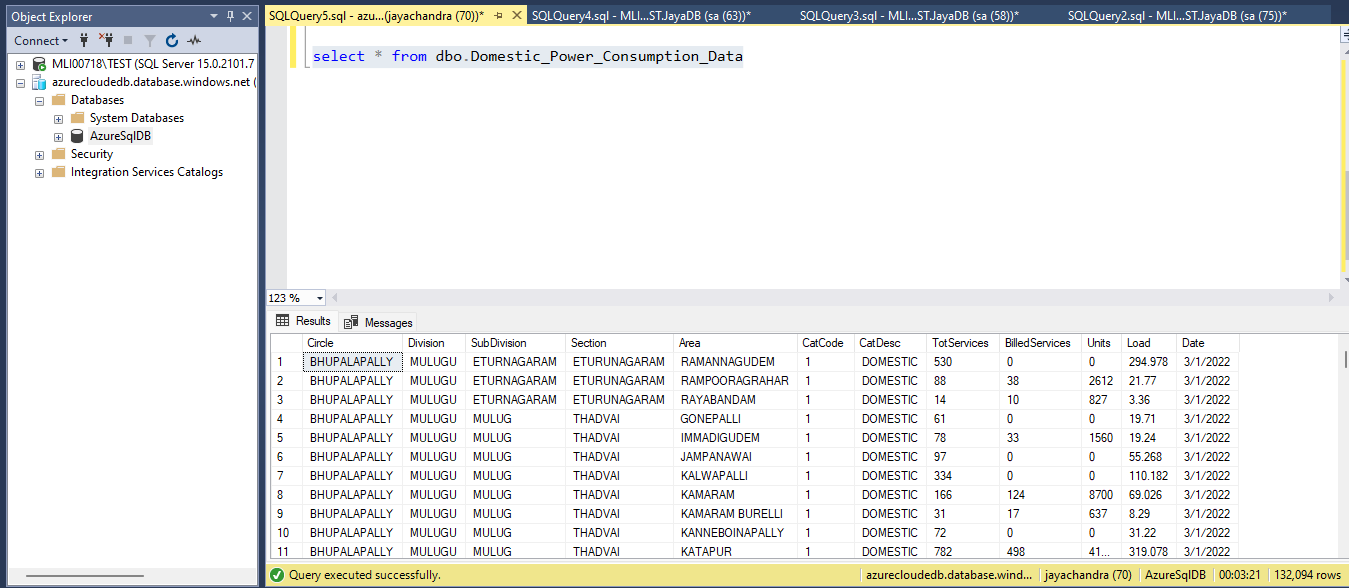
Graphical user interface, application

Description automatically generated

Successfully files are loaded into Backup FolderGraphical user interface, application

Description automatically generated

# Steps to be followed to create view for BI report.



# 3. Steps to be followed to create BI Reports

**Step 3.1:** We have built this report using desktop Power BI tool and Published to the web:

* **Overall Statistics of Domestic Power Consumption Data** which has below visuals:
  + Slicer for date, division, subdivision, and area
  + Data-cards for Total Services and max load
  + clustered column charts for subdivision wise circle by units.
  + Line and clustered column charts for billed services wise units by circle.
  + Stacked bar chart for load by area.
  + Waterfall chart for division wise area, catdecs and load.
  + Donut chart for Year wise units
  + Gauge chart for total services by load.
  + Matrix for circle wise details.

Azure SQL Database Connection to Power BI Desktop

**Graphical user interface, application

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Imported Data into Power BI Desktop

**Graphical user interface, application, table

Description automatically generated**

Power BI Data View

**Graphical user interface, application, table, Excel

Description automatically generated**

Power BI Data Modelling

**Graphical user interface, application, Word

Description automatically generated**

Build the Data Visualization

**Graphical user interface, application

Description automatically generated**

Publish The Report

**Graphical user interface, application

Description automatically generated**

Successfully publish the report into Workspace

**Graphical user interface, application

Description automatically generated**

3.2 Installing Gateway and adding Data Sources

Adding the Gateway to the Dataset

Graphical user interface, text, application, email

Description automatically generated

Connected to Data Source

Graphical user interface, text, application

Description automatically generated

Adding the Schedule Refresh Daily and Weekly

Graphical user interface, application

Description automatically generated

Report Schedule Refresh Successful

Graphical user interface, application

Description automatically generated

Published Power BI report can be found here:

[Domestic Power Consumption Report - Power BI](https://app.powerbi.com/groups/334273fc-9456-48a5-be5d-a0d4ae3487b1/reports/a3616362-ec12-4de2-8ef4-13bd839f9e04/ReportSection)

[Domestic Power Consumption Report.pbix](https://corpusmobilelabs-my.sharepoint.com/:u:/g/personal/jayachandra_katta_motivitylabs_com/EYULKMnXajlBp_ZQA0tjiqcBSMygojrwnc7sttHSPjhmew?e=WNzcza)