Data Warehouse Project:

**Objective:**

Develop a modern data warehouse using SQL Sever to consolidate sales data, enabling analytical reporting and informed decision-making.

Specifications (30,000ft Overview):

* **Data Sources**: Import raw data from two source systems (ERP and CRM) as CSV files.
* **Data Quality**: Clean and resolve data quality issues prior to analysis.
* **Integration**: Combine both sources into a single data model.
* **Documentation**: Provide Clear documentation of the model to support both business stakeholders and analytical Teams.

BI Analytics and Reporting:

**Objective:**

Develop a SQL based analytical warehouse to deliver insights into:

* Customer Behavior
* Product Performance
* Sales Trends

High Level Model Architecture:

|  |  |  |  |
| --- | --- | --- | --- |
| Sources: | Bronze Layer | Silver Layer | Gold Layer |
| CRM & ERP data files   * Type: CSV Files | Raw Data  Object Type: Tables  Load:   * Batch Processing * Full load * Truncate & Insert * No Transformations | Cleaned Data  Object Type: Tables  Load:   * Batch Processing * Full load * Truncate & Inserts   Transformations:   * Data Cleaning * Data Standardization * Data Normalization * Derived Columns * Data Enrichment | Business – Ready Data  Object Type: Views  No Load  Transformations:   * Data Integrations * Aggregations * Business Logic   Data Model:   * Star Schema * Flat Tables * Aggregate Tables |