**🚀 Solution Overview**

To meet the objectives outlined in the project proposal, we will implement a scalable and automated data solution that ensures timely, accurate, and actionable insights.

**🔧 Key Components of the Solution**

**1. Data Pipeline Development**

* **Extract**: Connect to the on-premises SQL database to retrieve relevant customer and sales data.
* **Load**: Securely transfer the extracted data into **Azure** for cloud-based processing and storage.
* **Transform**: Cleanse and reshape the data to optimize it for analytical queries and dashboard consumption.

**2. Automated Scheduling**

* The pipeline will be configured to **run daily**, ensuring that the dashboard reflects the most current data.
* Automation reduces manual intervention and guarantees consistency in data updates.

**3. Custom Reporting**

* A tailored **interactive dashboard** will be built using a BI tool (e.g., Power BI or Tableau).
* The report will include:
  + Total products sold
  + Total sales revenue
  + Gender distribution of customers
  + Filters for product category, gender, and date range

**4. Cloud Scalability & Security**

* Leveraging **Azure** ensures:
  + High availability and scalability
  + Secure data handling and compliance with enterprise standards

**🎯 Benefits to Stakeholders**

* **Real-time insights** for faster decision-making
* **Improved data accuracy** through automated updates
* **Enhanced visibility** into customer demographics and sales trends
* **Empowered teams** with self-service analytics capabilities