The request

**RE: DFNB Consumer loans last year**  
Mary Jones  
Wednesday, May 22, 2019 8:30 AM  
To: Database Administrators

I received this request from Robert and was able to meet with him briefly to discuss what he is looking for. Big picture—he wants to understand how we did as a bank last year in consumer loans. He is interested in…

* Last year compared to the previous two years
* Several different measures: count, commitment, balance, revenue
* Production in terms of geographic regions, branches, and products
* New vs. existing customers

Mary Jones  
Project Manager  
Deseret First National Bank

The Deliverable SMPS

**What?**

Deseret First National Bank Consumer loans last year

**Why?**

This request comes from Mary Jones, to our database administrator because she wants to understand how they did as a bank last year in consumer loans. she is interested in…

* Last year compared to the previous two years
* Several different measures: count, commitment, balance, revenue
* Production in terms of geographic regions, branches, and products
* New vs. existing customers

This information is valuable for the bank, because starting from the results, they can implement new measurements and improve the ones who apparently aare working for the benefit of the customers.

**How?**

Data-

Explore the data in the DFNB2 database, specially [dbo].[stg\_p1] table.

- Integrate data from Human Resources and all team rosters

Tools

- SQL Server as the backend database

- SQL Server Management Studio for backend and middle tier (business logic) development

- GitHub for code repository

Research questions:

Q: Feasibility: Any known data or functionality gaps?

A: See below...Data Gaps - None exist today, the data points being requested all exist in team roster data and human resources data silos

Functionality gaps - None, we have the software licenses and tool expertise in house to perform this work.

Q: Sustainability: Ongoing resource requirements? Cycle?

A: See below...

Hardware - Server for the Datawarehouse

People - Initially one data engineer will be able to act as the DBA, Data Architect, and Data Engineer. Depending on growth, additional staff and division of labor may be required in the future.

Cycle - The expectation is that this application will be updated once the research is done, and all patches will be covered, so that the information is accurate with the actual registers. The cycle is therefore a weekly refresh of the backend data.

Q: Stability: What might threaten the things existence once it is built?

A: Server outages and hardware issues are the most likely threat. Data availability from HR and the team roster silos appears very stable as they are existing systems with significant dependencies and robust resiliency.

Q: Vendor options: Are any being considered?

A: Microsoft Azure is being considered as a cloud bases solution for hosting the SQL Server database. A cost/benefit analysis will need to be performed.

Q: Horizontal expansion requirements: Any new FTE, hardware, or software resources?

A: No new FTE, one new server, existing software licenses are sufficient.

Q: Vertical dependencies: Anyone else involved

A: Yes - the team owner and the team manager are both stakeholders in this process. In addition, the HR data gatekeeper and the team roster data gatekeeper need to be integrated into this project.