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IST 722 - Data Warehouse

Assignment 2

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**1 - Website?**

| Azure Synapse | <https://azure.microsoft.com/en-us/products/synapse-analytics/> |
| --- | --- |
| Birst | <https://www.infor.com/solutions/advanced-analytics/business-intelligence/birst> |
| dbt Labs | <https://www.getdbt.com/> |
| Fivetran | <https://www.fivetran.com/> |
| MemSQL | <https://www.singlestore.com/> |
| Oracle Essbase | <https://www.oracle.com/business-analytics/essbase.html> |
| Pentaho Data Integration | <https://help.hitachivantara.com/Documentation/Pentaho/7.0/0D0/Pentaho_Data_Integration> |
| PostgreSQL | <https://www.postgresql.org/> |
| Reltio | <https://www.reltio.com/> |
| Snowflake.com | <https://www.snowflake.com/en/> |

**2 - What does it do?**

| Azure Synapse | “Azure Synapse Analytics is a limitless analytics service that brings together data integration, enterprise data warehousing, and big data analytics.” |
| --- | --- |
| Birst | “Birst is a cloud business intelligence and analytics tool with In-memory data model designed to connect the whole enterprise through a network of virtualized BI instances in a common base of analysis.” |
| dbt Labs | “dbt is an open-source command line tool that helps analysts and engineers transform data in their warehouse more effectively.” |
| Fivetran | “Fivetran is the automated data movement platform moving data out of, into, and across your cloud data platforms.” |
| MemSQL | “SingleStore is a proprietary, cloud-native database designed for data-intensive applications. A distributed, relational, SQL database management system that features ANSI SQL support, it is known for speed in data ingest, transaction processing, and query processing.” |
| Oracle Essbase | “Essbase is a multidimensional database management system that provides a platform upon which to build analytic applications.” |
| Pentaho Data Integration | “Pentaho Data Integration(PDI) provides the Extract, Transform, and Load (ETL) capabilities that facilitate the process of capturing, cleansing, and storing data using a uniform and consistent format that is accessible and relevant to end users and IoT technologies.” |
| PostgreSQL | “PostgreSQL, also known as Postgres, is a free and open-source relational database management system emphasizing extensibility and SQL compliance.” |
| Reltio | “Reltio is a next-generation multi-domain cloud MDM platform. It helps you deploy customer, organization, employee, assets, location, and product data masters within the same instance, breaking down data silos.” |
| Snowflake.com | “Snowflake Inc. is a cloud computing–based data cloud company. It was founded in July 2012 and was publicly launched in October 2014 after two years in stealth mode. The firm offers a cloud-based data storage and analytics service, generally termed "data-as-a-service".” |

**3 - Is it a product (hardware/software), service (we do the work for you), or both?**

| Azure Synapse | Service |
| --- | --- |
| Birst | Product |
| dbt Labs | Product |
| Fivetran | Both |
| MemSQL | Product |
| Oracle Essbase | Both |
| Pentaho Data Integration | Both |
| PostgreSQL | Product |
| Reltio | Both |
| Snowflake.com | Both |

**4 - Is it installed onsite, or is it in the cloud?**

| Azure Synapse | Cloud |
| --- | --- |
| Birst | Cloud |
| dbt Labs | Onsite |
| Fivetran | Cloud |
| MemSQL | Onsite |
| Oracle Essbase | Onsite |
| Pentaho Data Integration | Onsite |
| PostgreSQL | Onsite |
| Reltio | Cloud |
| Snowflake.com | Cloud |

**5 - Is it systems or technical architecture?**

| Azure Synapse | Systems |
| --- | --- |
| Birst | Technical |
| dbt Labs | Technical |
| Fivetran | Technical |
| MemSQL | Systems |
| Oracle Essbase | Systems |
| Pentaho Data Integration | Technical |
| PostgreSQL | Systems |
| Reltio | Technical |
| Snowflake.com | Systems |

**5a - If systems architecture, is it SMP, MPP, or Hadoop/MapReduce?**

| Azure Synapse | MPP |
| --- | --- |
| Birst | - |
| dbt Labs | - |
| Fivetran | - |
| MemSQL | MPP |
| Oracle Essbase | SMP |
| Pentaho Data Integration | - |
| PostgreSQL | SMP |
| Reltio | - |
| Snowflake.com | MPP |

**5b - If technical architecture, which part of the corporate information factory does it aim to address? Data mart? IM&T/ETL? ODS/NDS/DDS? External world application? Crossmedia storage? And so on.**

| Azure Synapse | - |
| --- | --- |
| Birst | DSS |
| dbt Labs | NDS |
| Fivetran | ETL |
| MemSQL | - |
| Oracle Essbase | - |
| Pentaho Data Integration | ETL |
| PostgreSQL | - |
| Reltio | Data Mart |
| Snowflake.com | - |