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IST 722 – Data Warehouse

Assignment 2: Making Sense of the Market

Offerings

1. Azure Synapse

- a) Website? <https://azure.microsoft.com/en-in/products/synapse-analytics/>
- b) What does it do? **Analytics Service for data integration, exploration, and analysis at scale**
- c) Is it a product (hardware/software), service (we do the work for you), or both? **Both**
- d) Is it installed onsite, or is it in the cloud? **Cloud**
- e) Is it systems or technical architecture? **Technical architecture**
 - i. If systems architecture, is it SMP, MPP, or Hadoop/MapReduce? **N/A**
 - ii. 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? **Data mart/ETL**

2. Birst

- a. Website? <https://www.infor.com/products/birst>
- b. What does it do? **Birst is a cloud-based business intelligence and analytics platform which provides data visualization, reporting, and analytics capabilities.**
- c. Is it a product (hardware/software), service (we do the work for you), or both? **Product**
- d. Is it installed onsite, or is it in the cloud? **Cloud**
- e. Is it systems or technical architecture? **Technical Architecture**
 - i. If systems architecture, is it SMP, MPP, or Hadoop/MapReduce? **N/A**
 - ii. 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? **DSS application**

3. dbt Labs

- a. Website? <https://www.getdbt.com/product/what-is-dbt/>

- b. What does it do? **Open-source analytics engineering tool to transform and model data in their data warehouse using SQL-based workflows.**
- c. Is it a product (hardware/software), service (we do the work for you), or both? **Both**
- d. Is it installed onsite, or is it in the cloud? **Both**
- e. Is it systems or technical architecture? **Technical Architecture**
 - i. If systems architecture, is it SMP, MPP, or Hadoop/MapReduce? **N/A**
 - ii. 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? **ETL/ DDS**

4. Fivetran

- a. Website? **<https://www.fivetran.com/data-movement/data-lakes-warehouses>**
- b. What does it do? **Replicate data to any of your cloud-based destinations.**
- c. Is it a product (hardware/software), service (we do the work for you), or both? **Service**
- d. Is it installed onsite, or is it in the cloud? **Cloud**
- e. Is it systems or technical architecture? **Technical Architecture**
 - i. If systems architecture, is it SMP, MPP, or Hadoop/MapReduce? **N/A**
 - ii. 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? **ETL**

5. MemSQL

- a. Website? **<https://www.singlestore.com/>**
- b. What does it do? **It unifies transactions and analytics in a single engine to drive low-latency access to large datasets, simplifying the development of fast, modern enterprise applications.**
- c. Is it a product (hardware/software), service (we do the work for you), or both? **Product**
- d. Is it installed onsite, or is it in the cloud? **Onsite and Cloud deployment**
- e. Is it systems or technical architecture? **Technical Architecture**
 - i. If systems architecture, is it SMP, MPP, or Hadoop/MapReduce? **N/A**
 - ii. 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? **Data mart/ DSS application**

6. Oracle Essbase

- a. Website? **<https://www.oracle.com/in/business-analytics/essbase.html>**

- b. What does it do? **Oracle Essbase gives organizations the power to rapidly generate insights from multidimensional data sets using what-if analysis, and data visualization tools.**
- c. Is it a product (hardware/software), service (we do the work for you), or both? **Product**
- d. Is it installed onsite, or is it in the cloud? **Both**
- e. Is it systems or technical architecture? **Technical Architecture**
 - i. If systems architecture, is it SMP, MPP, or Hadoop/MapReduce? **N/A**
 - ii. 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? **Data mart / DSS applications**

7. Pentaho Data Integration

- a) Website? **<https://www.hitachivantara.com/en-us/products/pentaho-platform/data-integration-analytics.html>**
- b) What does it do? **Builds and deploys data integration and analytics at enterprise scale.**
- c. Is it a product (hardware/software), service (we do the work for you), or both? **Product**
- d) Is it installed onsite, or is it in the cloud? **Onsite and/or Cloud deployment**
- e) Is it systems or technical architecture? **Technical Architecture**
 - i. If systems architecture, is it SMP, MPP, or Hadoop/MapReduce? **N/A**
 - ii. 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? **IM&T/ETL**

8. PostgreSQL

- a. Website? **<https://www.postgresql.org/>**
- b. What does it do? **PostgreSQL is a powerful, open-source object-relational database system that uses and extends the SQL language combined with many features that safely store and scale the most complicated data workloads.**
- c. Is it a product (hardware/software), service (we do the work for you), or both? **Product**
- d. Is it installed onsite, or is it in the cloud? **Onsite and/or Cloud**
- e. Is it systems or technical architecture? **Technical Architecture**
 - i. If systems architecture, is it SMP, MPP, or Hadoop/MapReduce? **N/A**
 - ii. 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? **ODS/NDS/DDS**

9. Reltio

- a. Website? **<https://www.reltio.com/connected-data-platform/>**

- b. What does it do? **Cleans and unify complex, multisource data into a single source of real-time information, SaaS master data management solution.**
- c. Is it a product (hardware/software), service (we do the work for you), or both? **Product**
- d. Is it installed onsite, or is it in the cloud? **Cloud**
- e. Is it systems or technical architecture? **Technical architecture**
 - i. If systems architecture, is it SMP, MPP, or Hadoop/MapReduce? **N/A**
 - ii. 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? **Data mart/ETL**

10. Snowflake.com

- a. Website? **<https://www.snowflake.com/en/data-cloud/workloads/data-warehouse/>**
- b. What does it do? **Unifies data across clouds to accelerate and scale analytics with near-zero administration.**
- c. Is it a product (hardware/software), service (we do the work for you), or both? **Cloud-based service provided as a software product.**
- d. Is it installed onsite, or is it in the cloud? **Cloud**
- e. Is it systems or technical architecture? **Technical architecture or System Architecture**
 - i. If systems architecture, is it SMP, MPP, or Hadoop/MapReduce? **MPP**
 - ii. 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? **ETL/ODS/DDS**

Works Cited

- IDC. (2016). Worldwide big data and business analytics revenues forecast to reach \$187 billion in 2019." May 23. Retrieved June 29, 2017, from <https://www.idc.com/getdoc.jsp?containerId=prUS41306516>