1. **For you, what does Business Intelligence mean?**

I think that buisiness intelligence is the use of various technologies in the analysis of data.The purpose is to give a historical perspective, which in turn allows for future predictions of behavior within a company.

1. **Cite two ETL tools.**

a. Microsoft Azure Data Factory is somewhat new to the industry, but because of a low price and familiar formate is becoming popular.

## b. SAS Data Management is one of the biggest ETL tools on the market today. It has a very large customer base and strong support.

1. **Cite three data presentation tools.**
2. Tableau is currently the most used Data Visualization Tool on the market. It has extensive interactive tools available.
3. Qlikview is the second largest Data Visualization Platform with a very strong user interface.
4. Highcharts is popular with many large companies because of its ease of use and cross-browser support.

**4**. **What is a Fact Table and what is a Dimension table?**

A fact table is generaly a table with a numeric discription. A dimension table is usually a discriptive table that explains the significance of the fact table. A fact table usually changes very fast or frequently, whereas a dimension table typically changes slowly.

**5.** **What types of modeling are the most used in a BI project?**

There are three types of models or schemes that are the most commonly used in BI.

1. Star model which is the prefered model because of ease of use.
2. Snowflake model which is popular because of compression effeciancy.
3. Galaxy model which is similar to star model.

**6. What is the meaning of Surrogate Key?**

Asurragate key is a numerically generated identifier within a data base usually given to a dimesion table and only sometimes used with a fact table. A surragate key is different from a natural key because it has no meaning to the information within the data base.

**7.** **Explain the difference between relationship 1 to 1 and 1 to N**

A 1 to 1 relationship is when only one outcome or output occures for each imput. A 1 to many relationship is when there is more than one output for each input.

**8. What does Drill Down / Drill Up mean?**

When displaying data in a visual format such as a dashboard, the data is represented in various levels of detail. To drill down means to view data with increased detail. To drill up means to view data with decreased detail or a bigger picture.