**Why is it important to have a good understanding of the underlying business when creating a data model?**

It’s very important to have a good understanding of the underlying business when creating a data model because the data designer needs to know what entities and attributes to create to design a data model that fulfills the business’s needs.

**Compare and contrast the data and metadata.**

Metadata describes what the data is. The data is the actual value of the metadata. Both are required for data models. Metadata examples would include: CustomerName, CustomerId, or CustomerAddress. Data would be expanding upon the metadata like CustomerName: Daryl Cimfranca, Customer Id: 39, and CustomerAddress: 5 MakeBelieve Way.

**What is the difference between an entity and an attribute**.

An entity is a noun, which is essentially like an object in object-oriented-programming. Example would be like having an entity called customer. Attributes expand upon the entities and provides specific properties of entities. Example for customer would be name and address.

**What is a primary key.**

A primary key is a unique identifier for a piece of data. There can be no repeating primary keys within a specific entity.

**What is a foreign key.**

A foreign key is a key imported from another piece of data.

**What is the purpose of relationships in a relational database?**

Relationships in a relational database show how an entity is linked with other entities to process data like customer transactions in an app.

**What does a row represent in a relational database?**

A piece of data within an entity that interacts with other entities in a relational database.