1. **Data planning and designing**
2. **Questions to answer with our data**

* Which school district are doing best?
* What state has the best reading score?
* Does tutoring have a positive impact?
* What is the best time for tutoring session?
* How do extracurriculars affect test scores?

**3.Steps in power Bi**

1. **Data Discovery**

* Establish connections
* Power query

1. **Views**

**i)**

* Model view
* Table View

**ii) Data Modeling**

* Build Relationships
* DAX(Data Analysis eXpressions)

**3.Report View**

* Data Visualization panes
* Report
* Pages
* Visuals

**4.Final phase: Data Sharing**

**publishing the power Bi**

* Click on the publish button on the ribbon
* Power Bi Service
* Powerbi.com
* Share
* Security
* Data Refreshes

**How to turn your preview feature on/add any updates:**

* File button
* Options and settings
* Options
* Preview features
* Click: on object interaction

**4.Data cleansing and Shaping**

**POWER QUERY EDITOR:** Powerful tool integrated into many Microsoft applications (such as excel and power bi) designed to connect to various data sources and transform them into a format suitable for analysis

**Load:** load the data into the power BI data model if its already cleaned up and formatted

**Transform:** Lunch power query editor

**NULL DOES NOT EQUAL TO BLANK**

Null: Absence of a value

Blank: Empty VI. Its good to replace blank with null values

Fill: used for filling values either up or down until we reach next value then continues with the next value etc

**5.Data Modeling**

1. Perform optimization
2. Data Schemas: Star schemas

Snow flakes schemas

3.Data accuracy and consistency

4.Scalability

5.Maintenance reasons

6.Enhance usability

Relationships:

One to many

DAX