A4DATA

DATABASE

WHAT IS A4DATA

Technical Definition

- **Atomized data creation and storage is done in A4Data. All the functions are executed in natural language**
- **Uses NLP**

WHAT IS A4DATA

Technical Definition

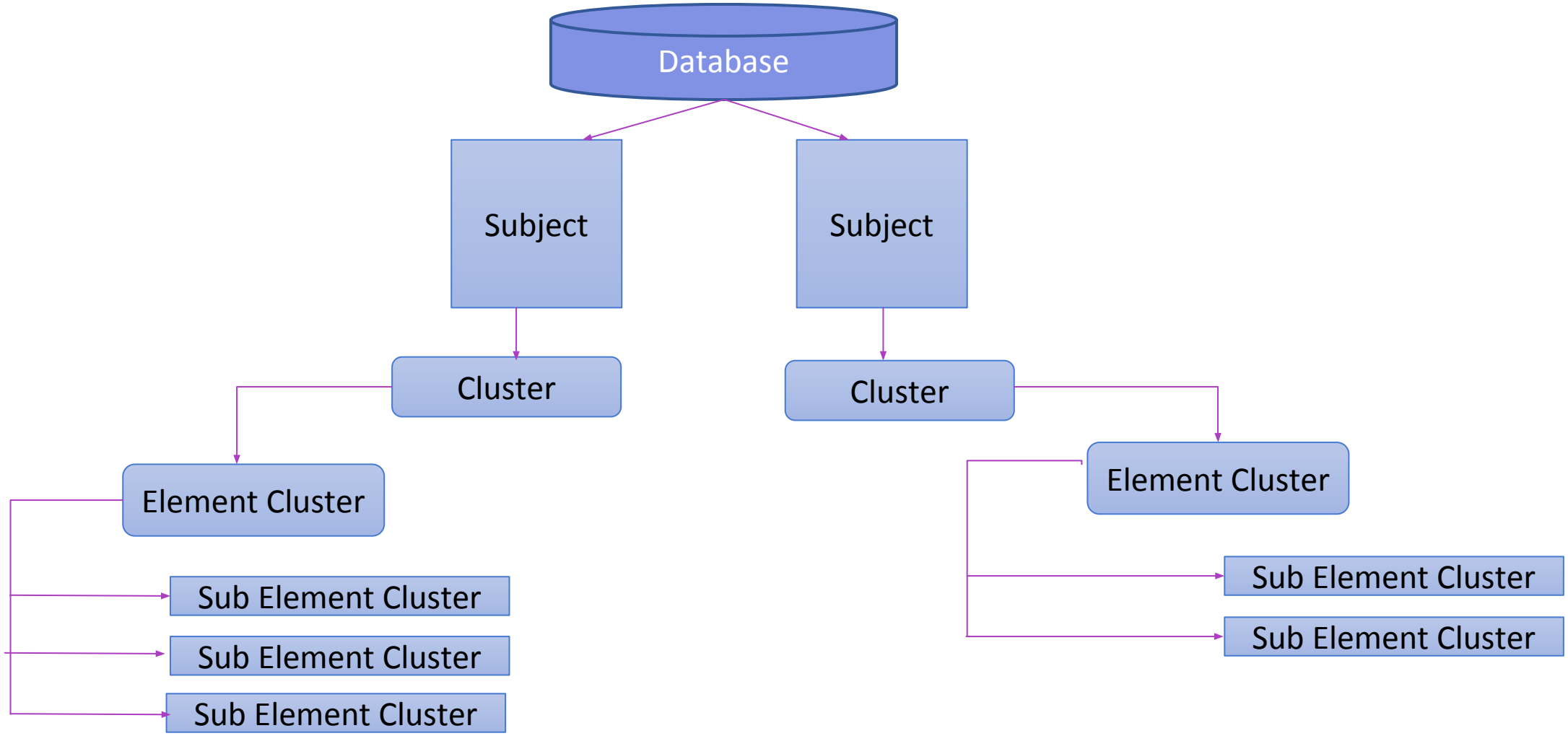
- **In A4 data is also categorized as Dimension, Fact, Unary, Link, GIS and LOBs**
  - Dimension categories are used to represent a domain of fixed values that have data type of byte, short, Integer. - . For e.g. List of states, List of cities (that are already pre-defined)
  - Fact data category supports the data types of Byte, Short, Integer, Float, Long, Double, Decimal and String. For e.g. Value that are infinite…for e.g. date, annual salary
  - Complex data category supports the date types where it is sub-divided into Day, Month and Year. Sub-divided into Day, Month and Year.
  - GIS data category supports points, lines, line strings, polygons.
  - LOBS data category supports CLOBs and BLOBs

WHAT IS A4DATA

Business Definition

- All the functions are executed using Natural Language.
- Gives the ability to the user to find out Sum, Difference, Average, Mean, Minimum, Maximum.
- For ex: One could ask
  - What is the total annual salary of customers in Plano?
  - How many customers live in Plano?
  - How many customers are born in June 1990?
- Displays the databases in Sunburst format
- Query performance exceeds any database in the industry
- Security
- Universalized for multiple data types
- Supports structured, semi-structured/unstructured data

WHAT IS A4 DATA



A4DATA VS Regular Database

A4DATA

- A4Data Structures Hierarchy
  - Database -->Subject -->Cluster -->Element Cluster -->Sub Element Cluster -->
- Interact with an A4 database Using NLP a user asks for data matching certain conditions (List of customers living in Plano)
- Data is represented as rows and columns. However columns can be sub divided.
- Data is also categorized as Dimension, Fact, Unary, Link, GIS and LOBs

Regular Datatbase

- Regular Database Structures Hierarchy
  - Database -->Schema -->Table -->Column
- Query a regular database Using SQL by using Select <column list> from <Table(s)> Where <Where condition> Join <Tables with join criteria>
- Data is stored as rows and columns