1. **Explain about selected value() and explain one usage of this function?**

**Ans:-** The function SELECTEDVALUE returns the value of the column reference passed as first argument if it is the only value available in the filter context, otherwise it returns blank or the default value passed as the second argument.

This section describes several use cases for SELECTEDVALUE. The Power BI file you can download contains all the examples described in this section.

1. **Explain about conditional formatting and types available?**

**Ans**:- Conditional formatting is a rule which will automatically apply a format to a range of cells in a table. So for example, if you have a table that contains sales values, you could apply a rule to color any cell with a value over £3,000.

There are 5 types of conditional formatting visualizations available:

Background Color Shading (of cells)

Foreground Color Shading (of fonts)

Data Bars.

Icons (which have 4 different image types)

Values.

1. **What is the use of DAX?**

**Ans:-** DAX is a Data Analysis Expressions (DAX) is a programming language that is used throughout Microsoft Power BI for creating calculated columns, measures, and custom tables. It is a collection of functions, operators, and constants that can be used in a formula, or expression, to calculate and return one or more values.

1. **What is a gateway and explain the types?**

**Ans:-** A Power BI Gateway serves as a pathway between your on-premises data and your cloud-based apps. A gateway is secure and encrypted, so you know your data is safe as it travels. It requires correct authentication in order to access the data, so it will only open for registered users.

There are two main types of gateways:-

unidirectional gateways and bidirectional gateways.

***UNIDIRECTIONAL* GATEWAYS:-** It allow alerts to flow in only one direction. Changes made in the source Object Server are replicated in the destination Object Server or application, but changes made in the destination Object Server or application are not replicated in the source Object Server. Unidirectional gateways can be considered as *archiving* tools.

***BIDIRECTIONAL* GATEWAYS:-** It allow alerts to flow from the source Object Server to the target Object Server or application, and also allow feedback to the source Object Server. In a bidirectional gateway configuration, changes made to the contents of a source Object Server are replicated in a destination Object Server or application, and the destination Object Server or application replicates its alerts in the source Object Server. Bidirectional gateways can be considered as *synchronization* tools.

1. **What are the roles available for workspace access?**

**Ans:-** Workspace allows you to assign roles to individuals, and also to user groups such as security groups, Microsoft 365 groups, and distribution lists. To grant access to a workspace, assign one of the following workspace roles to a user group or individuals: Admin, Member, Contributor, or Viewer.