**GMC POWER BI CHECKPOINT**

**Describe the functions and uses of the following tools: SSIS - SSAS SSRS - Power BI Suite - Power BI Desktop - Power BI Services  - Power BI Mobile**

1. **SQL Server Integration Services (SSIS)**

- **Functions:** SSIS is a data integration and workflow application tool used to perform data extraction, transformation, and loading (ETL) tasks. It can be used to automate maintenance of SQL Server databases, update data warehouses, clean and standardize data, and transfer data between different systems.

**- Uses:** SSIS is primarily used in data warehousing and business intelligence projects to move data from various sources, apply transformations, and load it into target destinations such as data warehouses.

1. **SQL Server Analysis Services (SSAS)**

- **Functions:** SSAS is a tool used for online analytical processing (OLAP) and data mining. It allows users to create sophisticated data models that can be used for analysis. SSAS supports both multidimensional and tabular data models.

- **Uses:** SSAS is commonly used to create cubes or tabular models that can be analyzed to discover patterns, trends, and insights within large datasets. It's integral for advanced data analytics and reporting.

1. **SQL Server Reporting Services (SSRS)**

- **Functions:** SSRS is a server-based report generating software system that allows the creation, deployment, and management of various types of reports. It supports a variety of formats, including tabular, graphical, and free-form reports.

- **Uses:** SSRS is used to generate and deliver detailed reports from data stored in SQL Server or other relational databases. It can be used to create operational reports, dashboards, and KPIs.

1. **Power BI Suite**

- **Functions:** Power BI is a suite of business analytics tools that enables users to analyze data and share insights. It consists of various components including Power BI Desktop, Power BI Service, and Power BI Mobile.

- **Uses:** The Power BI Suite is used to connect to multiple data sources, transform and model data, create interactive reports and dashboards, and share insights across an organization.

1. **Power BI Desktop**

- **Functions:** Power BI Desktop is a Windows-based application that allows users to create reports and data visualizations. It provides a wide range of data connectivity, transformation, and visualization tools.

- **Uses**: Power BI Desktop is used by data analysts and business intelligence professionals to develop complex data models, create visuals, and design reports before publishing them to the Power BI Service for broader consumption.

1. **Power** **BI** **Service**

- **Functions**: Power BI Service is a cloud-based service that allows users to share, view, and collaborate on Power BI reports and dashboards. It enables online access to reports created in Power BI Desktop and offers additional features such as real-time data streaming and automated refreshes.

- **Uses**: Power BI Service is used to distribute and share reports and dashboards across an organization, enabling users to view and interact with the data from any web-enabled device. It also allows for setting up scheduled data refreshes and access controls.

1. **Power BI Mobile**

- **Functions**: Power BI Mobile provides mobile access to Power BI reports and dashboards. It is available as an app for iOS, Android, and Windows devices.

- **Uses**: Power BI Mobile is used by professionals who need to access reports and dashboards on the go. It allows users to stay connected to their data, receive notifications, and interact with reports and dashboards from their mobile devices.

These tools, when used together, provide a comprehensive solution for data integration, analysis, reporting, and sharing across an organization, enabling informed decision-making based on real-time data insights.