*Day - 26 Assignment*

**Question 1** - Types of Power BI Licensing

**Answer** -

Power BI offers two main categories of licensing: per-user licenses and capacity subscriptions. Here's a breakdown of the options within each category:

1. Per-User Licenses:

Free (Fabric free): Ideal for individual users to explore data, view reports, and interact with dashboards. Users can connect to data sources and create basic reports.

Pro: Suitable for business users who need to create and share reports, collaborate with others, and access advanced features like paginated reports and increased data refresh rates. Requires a separate Pro license per user.

Premium Per User (PPU): Provides all the capabilities of Pro along with additional features like increased storage capacity, workload management, and the ability to share reports with users who don't have Pro licenses. Requires a separate PPU license per user.

1. Capacity Subscriptions:

Premium: Ideal for organizations with many report consumers or demanding workloads. Offers dedicated resources for report processing, refresh, and sharing. Comes in various SKUs (Stock Keeping Units) with different capacities for vCores (virtual cores) and storage.

Premium Per User (PPU) with Premium Capacity: Combines the benefits of PPU licenses with a Premium capacity subscription for users who need advanced features and access to reports shared by PPU users.

**Question 2** - Difference between all types of licensing

**Answer** -

| Category | License | Capabilities | Sharing | Cost | Ideal Use Case |
| --- | --- | --- | --- | --- | --- |
| Per-User | Free (Fabric free) | View reports, interact with dashboards, connect to data sources, create basic reports | Limited (self-service only) | Free | Individual data exploration, basic reporting needs |
| Per-User | Pro | Create and share reports, collaborate with others, paginated reports, increased data refresh rates | Requires Pro license for viewers | Per-user cost | Business users creating and sharing reports, collaboration |
| Per-User | Premium Per User (PPU) | All Pro features, increased storage, workload management, share with non-Pro users (requires Premium capacity) | Requires PPU license for viewers (or Premium capacity) | Per-user cost (plus potential Premium capacity cost) | Advanced users needing Pro features and non-Pro user sharing |
| Capacity | Premium | Dedicated resources for report processing, refresh, sharing (various SKUs) | Requires Pro or PPU for viewers | Per-SKU cost | Organizations with many report consumers, large datasets, demanding workloads |
| Capacity | Premium Per User (PPU) with Premium Capacity | Combines PPU features, sharing with non-Pro users, dedicated resources | Requires PPU license and Premium capacity subscription | Per-user cost (plus Premium capacity cost) | Organizations needing PPU features, non-Pro user sharing, and dedicated resources |

**Question 3** - Benefits of Power BI Premium over Power BI pro

**Answer** -

Power BI Premium offers several advantages over Power BI Pro, especially for organizations with larger-scale data analysis needs and report sharing requirements. Here's a breakdown of the key benefits:

1. Dedicated Resources:

* Pro relies on shared resources in the cloud, which can lead to performance limitations during peak usage times.
* Premium offers dedicated capacity with vCores (virtual cores) and storage, ensuring consistent performance for report processing, refresh, and sharing, even for large workloads.

2. Scalability:

* Pro has limitations on data model size and refresh rates.
* Premium allows for scaling resources (vCores and storage) as your data requirements grow, accommodating larger datasets and more complex reports.

3. Advanced Sharing:

* Pro limits report sharing to users with Pro licenses.
* Premium enables report sharing with any user, regardless of their license type, as long as the organization has a Premium capacity subscription. This is especially beneficial for scenarios where you need to share reports with external stakeholders or colleagues who don't require full-fledged Pro functionality.

4. Increased Storage:

* Pro offers limited storage for datasets.
* Premium provides significantly more storage space, allowing you to house larger datasets and historical data for deeper analysis.

5. Workload Management:

* Pro lacks built-in workload management features.
* Premium provides tools to manage and prioritize report refresh schedules, ensuring optimal resource utilization and preventing performance bottlenecks.

6. On-premises Deployment (Optional):

* Pro is a cloud-based service only.
* Premium offers the option for on-premises deployment (depending on the SKU) if you have data security or compliance requirements that necessitate keeping data in-house.

7. Other Features:

* Premium unlocks additional features like increased row-level security options and the ability to embed reports in other applications.