**REDSHIFT**

* Redshift is based on PostgreSQL, but it is not used for OLTP (Online Transaction Processing)
* Instead, Redshift is **OLAP - Online Analytical processing** (analytics and data warehousing)
* Data is loaded every hour, not every second
* 10x better performance than other data warehouses, scale of PBs of data
* Data are stored as columns, instead of row based
* Massively parallel Query Execution (MPP), highly available
* Pay as you go based on the instances provisioned
* Has a SQL interface for performing the queries
* BI tools such as AWS Quicksight or Tableau integrate with it

There is a new feature for Redshift, called **Redshift Serverless**

* Automatically provisions and scales data warehouse underlying capacity
* Run analytics workloads without managing data warehouse infrastructure
* Pay only for what you use – save costs
* Use cases – Reporting, Dashboarding applications, real time analytics etc., without managing the underlying capacity

