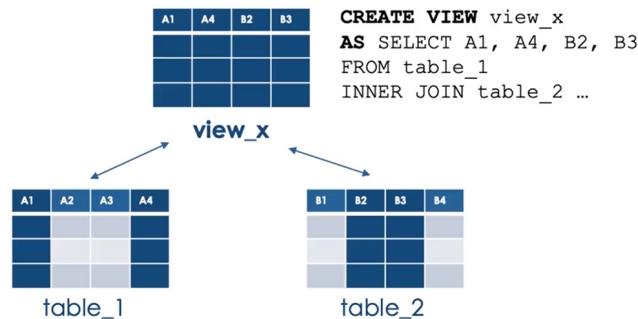


Databricks Views

- Views are logical query against source tables.



- Three types of views - **Stored views**, **Temporary views** & **Global temporary views**.
- Stored views - Persisted objects in database. You can use SQL queries similar to table against views.

► **CREATE VIEW** view_name
AS query

- Temporary views are tied to spark session, it is dropped when session ends. They are not persisted to any database since they are temporary.

► **CREATE TEMP VIEW** view_name
AS query

- Spark session is created when notebook is open, detach/reattach cluster, python package, restart cluster.
- Global Temporary views are cluster scoped views. As long as cluster is running, any notebook attached to cluster can access its global temporary view.

► **CREATE GLOBAL TEMP VIEW** view_name
AS query

► SELECT * FROM **global_temp**.view_name

- Global temporary views are added to a cluster's temporary database named **global_temp**. So you need to add a **qualifier global_temp** when querying against global temporary view.

Views comparison

(Stored) Views	Temp views	Global Temp views
▶ Persisted in DB	▶ Session-scoped	▶ Cluster-scoped
▶ Dropped only by DROP VIEW	▶ dropped when session ends	▶ dropped when cluster restarted
▶ CREATE VIEW	▶ CREATE TEMP VIEW	▶ CREATE GLOBAL TEMP VIEW

- **SHOW TABLES** command will provide the list of all views and tables present in all databases.
- To view list of global temporary views, you need use below SQL query.

SHOW TABLES IN global_temp