Views

Learning Objectives

▶ Views

▶ Types of views

View

▶ Logical query against source tables


```
CREATE VIEW view_x
AS SELECT A1, A4, B2, B3
FROM table_1
INNER JOIN table_2 …
```

view_x

table_1

table_2
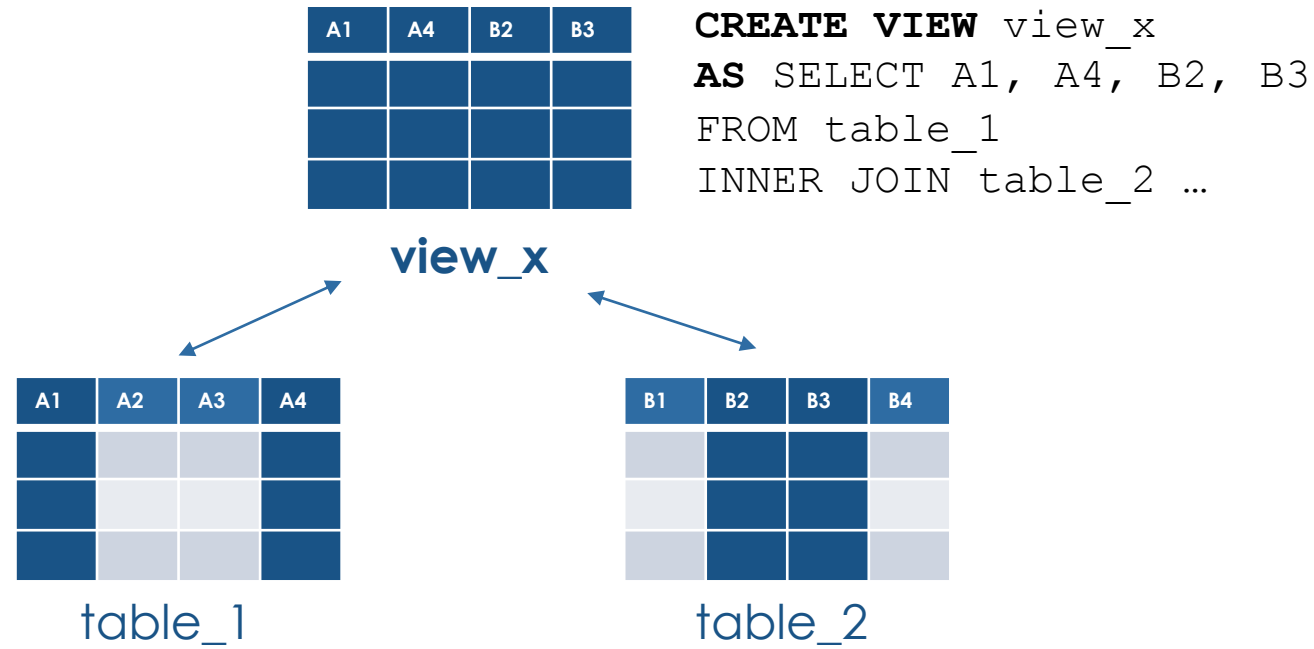
Types of views

1. (Stored) Views

2. Temporary views

3. Global Temporary views

1- (Stored) Views

▶ Persisted objects

▶ **CREATE VIEW** view_name
  AS query

2- Temporary view

▶ Session-scoped view

▶ **CREATE <u>TEMP</u> VIEW** view_name
   AS query

Spark Session

▶ Opening a new notebook

▶ Detaching and reattaching to a cluster

▶ Installing a python package

▶ Restarting a cluster

3- Global Temporary views

▶ Cluster-scoped view

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

▶ SELECT * FROM **global_temp**.view_name

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