



# Apache Spark

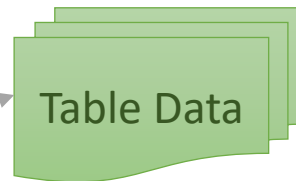
Databases and Tables

# Spark Database and Tables

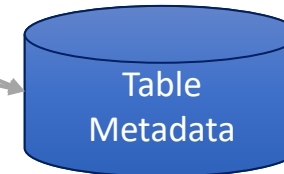


Database

- I. Tables
- II. Views



Spark Warehouse



Catalog Metastore

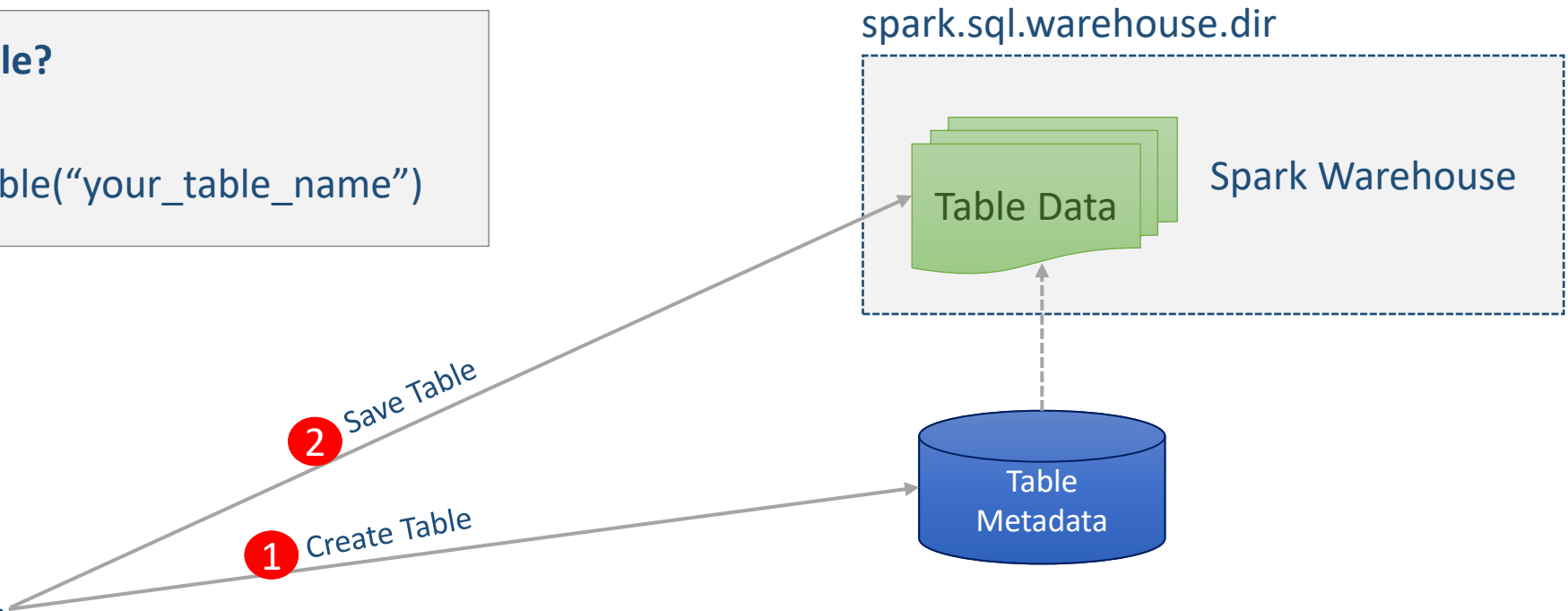
# Spark Database and Tables

## How to Create Managed Table?

```
dataframe.write  
    .saveAsTable("your_table_name")
```

## Spark Tables

- I. Managed Tables
- II. Unmanaged Tables (External Tables)



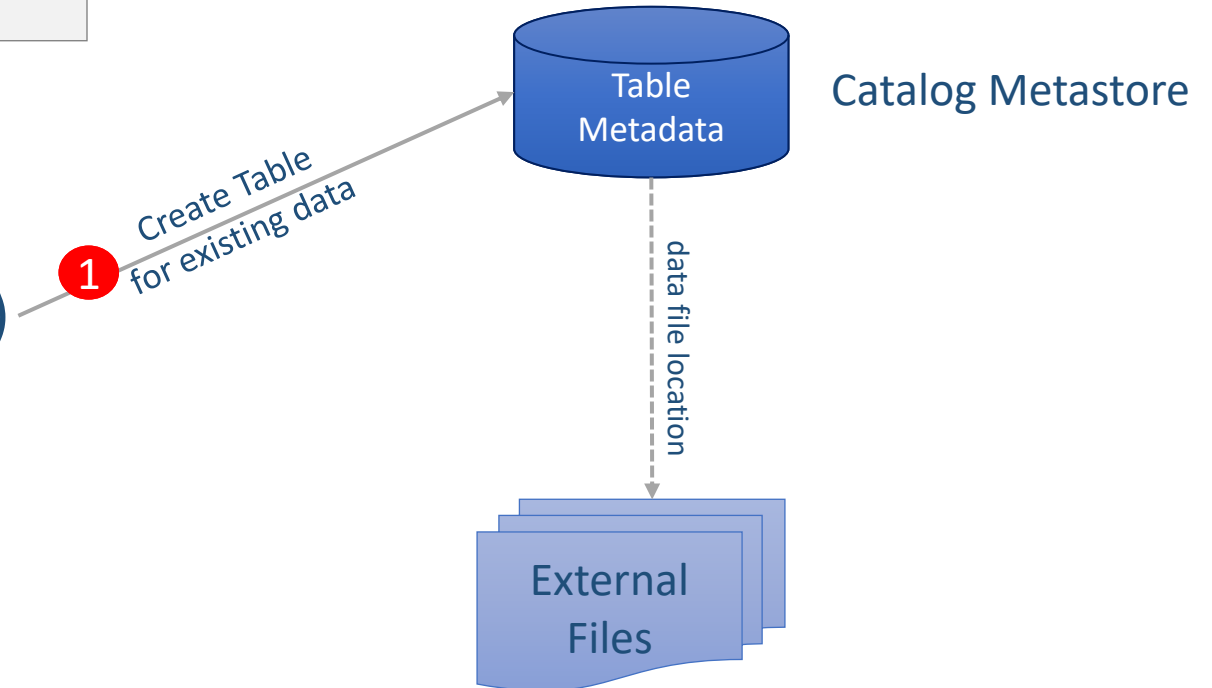
# Spark Database and Tables

## How to Create Unmanaged Table?

```
CREATE TABLE your_tbl_name (col1 data_type,  
                             col2 data_type,  
                             .....)  
  
USING PARQUET  
LOCATION "data_file_location"
```

## Spark Tables

- I. Managed Tables
- II. Unmanaged Tables (External Tables)



# Spark Database and Tables

 Spark Cluster



1

```
CREATE TABLE ....  
LOCATION "data_file_location"
```

Spark SQL Engine

Table  
Metadata

External  
Files

# Spark Database and Tables

 Spark Cluster



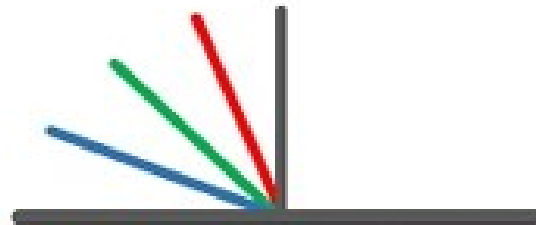
2

```
SELECT count(*) FROM ...
```

Spark SQL Engine

Table Metadata

External Files



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