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# Databricks notebook source
from pyspark.sql import SparkSession
# Create SparkSession
spark = SparkSession.builder \
          .appName('SparkByExamples.com') \
          .get0rCreate()
#EMP DataFrame
empData = [(1, "Smith", 10), (2, "Rose", 20),
    (3,"Williams",10), (4,"Jones",30)
empColumns = ["emp_id","name","emp_dept_id"]
empDF = spark.createDataFrame(empData,empColumns)
empDF.show()
#DEPT DataFrame
deptData = [("Finance",10), ("Marketing",20),
    ("Sales",30),("IT",40)
deptColumns = ["dept_name","dept_id"]
deptDF=spark.createDataFrame(deptData,deptColumns)
deptDF.show()
#Address DataFrame
addData=[(1,"1523 Main St","SFO","CA"),
    (2,"3453 Orange St","SFO","NY"),
    (3,"34 Warner St","Jersey","NJ"),
    (4,"221 Cavalier St","Newark","DE"),
    (5,"789 Walnut St", "Sandiago", "CA")
addColumns = ["emp_id","addline1","city","state"]
addDF = spark.createDataFrame(addData,addColumns)
addDF.show()
#Join two DataFrames
empDF.join(addDF,empDF["emp id"] == addDF["emp id"]).show()
#Drop duplicate column
empDF.join(addDF,["emp id"]).show()
#Join Multiple DataFrames
empDF.join(addDF,["emp id"]) \
     .join(deptDF,empDF["emp dept id"] == deptDF["dept id"]) \
     show()
#Using Where for Join Condition
empDF.join(deptDF).where(empDF["emp_dept_id"] == deptDF["dept_id"]) \
    .join(addDF).where(empDF["emp_id"] == addDF["emp_id"]) \
    show()
```