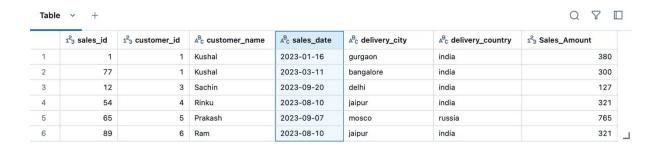
SCD TYPE 2 Implementation using PySpark

Customer Data:



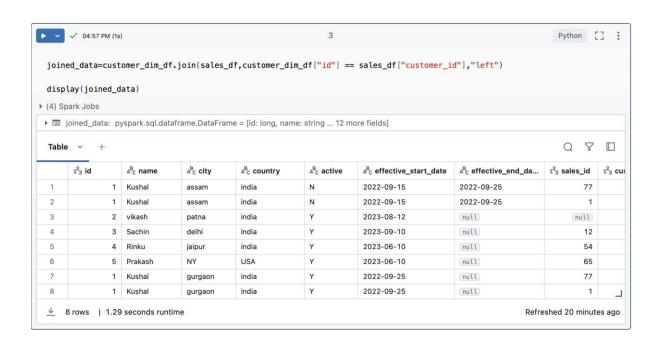
Sales Data:

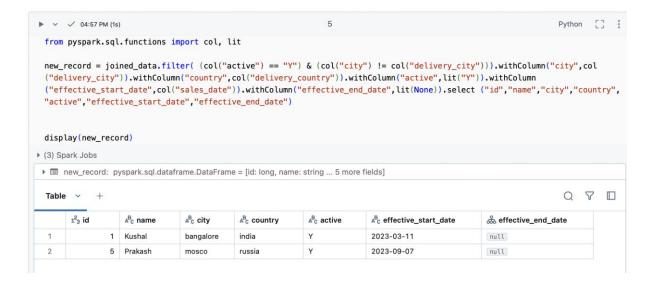


Expected-Output:



```
customer_dim_data = [
(1,'Kushal','assam','india','N','2022-09-15','2022-09-25'),
(2,'vikash','patna','india','Y','2023-08-12',None),
(3,'Sachin','delhi','india','Y','2023-09-10',None),
(4,'Rinku','jaipur','india','Y','2023-06-10',None),
(5, 'Prakash', 'NY', 'USA', 'Y', '2023-06-10', None),
(1, 'Kushal', 'gurgaon', 'india', 'Y', '2022-09-25', None),
customer_schema= ['id','name','city','country','active','effective_start_date','effective_end_date']
customer_dim_df = spark.createDataFrame(data= customer_dim_data,schema=customer_schema)
sales_data = [
(1,1,'Kushal','2023-01-16','gurgaon','india',380),
(77,1,'Kushal','2023-03-11','bangalore','india',300),
(12,3,'Sachin','2023-09-20','delhi','india',127),
(54,4,'Rinku','2023-08-10','jaipur','india',321),
(65,5,'Prakash','2023-09-07','mosco','russia',765),
(89,6,'Ram','2023-08-10','jaipur','india',321)
sales_schema = ['sales_id', 'customer_id','customer_name', 'sales_date', 'delivery_city','delivery_country',
'Sales_Amount']
sales_df = spark.createDataFrame(data=sales_data,schema=sales_schema)
```

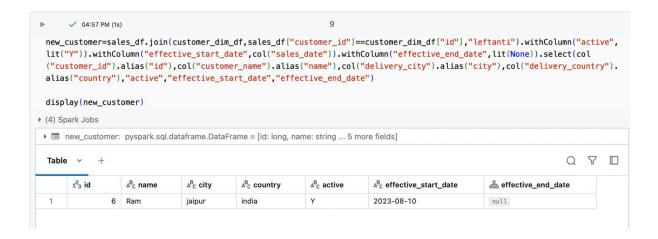




De-active the active FLAG and update the effective_end_date in the customer Dimension table



New Customer, whose data is not available in the Customer dimension



Union all the data

