

# Delta Table with Existing data in Databricks

Submitted By-  
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## Step 1. Writing data in Delta format

```
from pyspark.sql import SparkSession

spark = SparkSession.builder.appName("Dlt example").getOrCreate()

# Reading source file using the Delta format and writing to the destination path in Delta format
spark.read.format("delta").load("dbfs:/user/hive/warehouse/export").write.format("delta").mode("overwrite").save("/FileStore/tables/delta_train/")
```

▶ (7) Spark Jobs

```
#Below we are listing the data in destination path
display(dbutils.fs.ls("/FileStore/tables/delta_train/"))
```

▶ (2) Spark Jobs

Table			
	Path		name
1	dbfs:/FileStore/tables/delta_train/_delta_log/		_delta_log/
2	dbfs:/FileStore/tables/delta_train/part-00000-6ad2e66f-b2fb-476a-8963-3b51f40c3365-c000.snappy.parquet		part-00000-6ad2e66f-b2fb-476a-8963-3b51f40c3365-c000.snappy.parqu...

## Step 2: Databricks Create Delta table From Dataframe:

```
# Create database if it doesn't exist
spark.sql("CREATE DATABASE IF NOT EXISTS delta_training")

# DDL query to create table using Delta format
ddl_query = """CREATE TABLE IF NOT EXISTS delta_training.emp_file
              USING DELTA
              LOCATION '/FileStore/tables/delta_train/' """

# Execute the query to create the table
spark.sql(ddl_query)
```

DataFrame[]

```
# Listing tables in the delta_training database
spark.catalog.listTables("delta_training")
```

▶ (2) Spark Jobs

```
[Table(name='emp_file', catalog='spark_catalog', namespace=['delta_training'], description=None, tableType='EXTERNAL', isTemporary=False)]
```

### Step 3: Visualize data in delta table:

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```
spark.sql("select * from delta_training.emp_file").show(truncate=False)
```

▶ (2) Spark Jobs

id	firstName	middleName	lastName	gender	birthDate	ssn	salary
1	Pennie	Carry	Hirschmann	F	1955-07-02 04:00:00	981-43-9345	56172
2	An	Amira	Cowper	F	1992-02-08 05:00:00	978-97-8086	40203
3	Quyen	Marlen	Dome	F	1970-10-11 04:00:00	957-57-8246	53417
4	Coralie	Antonina	Marshal	F	1990-04-11 04:00:00	963-39-4885	94727
5	Terrie	Wava	Bonar	F	1980-01-16 05:00:00	964-49-8051	79908
6	Chassidy	Concepcion	Bourthouloume	F	1990-11-24 05:00:00	954-59-9172	64652
7	Geri	Tambra	Mosby	F	1970-12-19 05:00:00	968-16-4020	38195
8	Patria	Nancy	Arstall	F	1985-01-02 05:00:00	984-76-3770	102053
9	Terese	Alfredia	Tocque	F	1967-11-17 05:00:00	967-48-7309	91294
10	Wava	Lyndsey	Jeandon	F	1963-12-30 05:00:00	997-82-2946	56521
11	Sophie	Emerita	Hearn	F	1979-09-17 04:00:00	977-66-4483	90920
12	Jodie	Tabetha	Laneham	F	1959-01-31 05:00:00	923-24-9769	90634
13	Marietta	Mandi	Yansons	F	1974-02-19 04:00:00	900-34-8083	93162
14	Caridad	Maire	Snelle	F	1960-09-26 04:00:00	992-11-7062	38859
15	Yasmine	Meg	Edworthye	F	1960-01-29 05:00:00	922-12-9862	76220
16	Chan	Jani	Hartas	F	1986-12-05 05:00:00	995-51-3115	75050
17	Evangeline	Wanetta	Casserley	F	1961-09-29 04:00:00	926-61-3526	62814
18	Elnora	Kecia	Lipman	F	1980-02-14 05:00:00	950-23-9739	71350

--Thanks!