```
Clusters -> Create Cluster
Workspace -> Right Click -> Create -> Attach Cluster
-> Import Data
Parquet: What is Apache Parquet?
Pivot Table: SQL Pivot: Converting Rows to Columns - The Databricks Blog
Widgets: Widgets — Databricks Documentation
CREATE TABLE
DROP TABLE IF EXISTS outdoorProducts:
CREATE TABLE outdoorProducts (
       invoiceNo
                   STRING,
       stockCode STRING,
       description STRING,
       quantity INT,
       invoiceDate STRING.
       unitPrice
                   DOUBLE,
       customerID INT,
       countryName STRING
) USING csv OPTIONS (
 PATH "/mnt/training/online_retail/data-001/data.csv",
 header "true"
);
CREATE TEMPORARY VIEW
CREATE
OR REPLACE TEMPORARY VIEW sales AS
SELECT
       stockCode,
       quantity,
       unitPrice,
       quantity*unitPrice AS totalAmount,
       countryName
FROM
       outdoorProducts
```

WHERE

quantity > 0;

DESCRIBE tabela **DESCRIBE EXTENDED** tabela **CACHE TABLE** tabela **UNCACHE TABLE IF EXISTS** tabela **PARTITIONS** DROP TABLE IF EXISTS bikeShare_partitioned; CREATE TABLE bikeShare partitioned PARTITIONED BY (p_hr) AS **SELECT** instant. workingday, weathersit, temp **FROM** bikeShare SHOW PARTITIONS p_hr **EXPLODE NESTED OBJECT (LISTS) SELECT EXPLODE** (source) FROM DCDataRaw; (CTE) COMMON TABLE EXPRESSIONS - TEMPORARY WITH ExplodeSource -- specify the name of the result set we will guery AS -- wrap a SELECT statement in parentheses SELECT -- this is the temporary result set you will query dc_id,

```
to_date(date) AS date,
         EXPLODE (source)
 FROM
         DCDataRaw
SELECT
               -- write a select statment to query the result set
        key,
        dc_id,
        date,
        value.description,
        value.ip,
        value.temps,
        value.co2_level
FROM
               -- this query is coming from the CTE we named
        ExplodeSource;
```

(CTAS) CREATE TABLE AS SELECT - PERMANENT

```
DROP TABLE IF EXISTS DeviceData;
CREATE TABLE DeviceData
USING parquet
WITH ExplodeSource
                      -- The start of the CTE from the last cell
AS
 (
 SELECT
       dc_id,
       to date(date) AS date,
       EXPLODE (source)
 FROM
      DCDataRaw
 )
SELECT
       dc id,
       key device_type,
       value.temps,
       value.co2_level
FROM ExplodeSource;
SELECT * FROM DeviceData;
```

SAMPLE TABLE

SELECT * FROM outdoorProductsRaw TABLESAMPLE (5 ROWS) SELECT * FROM outdoorProductsRaw TABLESAMPLE (2 PERCENT) ORDER BY InvoiceDate **CHECK NULL VALUES** SELECT count(*) FROM outdoorProductsRaw WHERE Description IS NULL **REPLACE NULL VALUES SELECT** COALESCE(Description, "Misc") AS Description, FROM outdoorProductsRaw SPLIT STRING AND RETURN ARRAY SELECT SPLIT(InvoiceDate, "/")[0] month, SPLIT(InvoiceDate, "/")[1] day, SPLIT(SPLIT(InvoiceDate, " ")[0], "/")[2] year FROM outdoorProductsRaw INSERT CHARACTER ON THE LEFT OF A STRING **SELECT** LPAD(month, 2, 0) AS month, LPAD(day, 2, 0) AS day FROM outdoorProducts

CONCATENATING

SELECT CONCAT_WS("/", month, day, year) FROM outdoorProducts	
CHANGE TO DATA TYPE	
SELECT	
	to_date(sDate, "MM/dd/yy") date, CAST(UnitPrice AS DOUBLE)
FROM	standardDate