To import the dataset from a CSV file into MySQL, follow these steps:

Step 1: Prepare the CSV File

Ensure that your CSV file is properly formatted and saved in an accessible directory. For example, let's assume the file is named sales\_data.csv.

Step 2: Create the Database and Table

First, create the database and table structure in MySQL.

CREATE DATABASE SalesDB;  
USE SalesDB;  
  
CREATE TABLE Sales (  
    RowID INT PRIMARY KEY,  
    OrderID VARCHAR(20),  
    OrderDate DATE,  
    ShipDate DATE,  
    ShipMode VARCHAR(20),  
    CustomerID VARCHAR(10),  
    CustomerName VARCHAR(50),  
    Segment VARCHAR(20),  
    Country VARCHAR(50),  
    City VARCHAR(50),  
    State VARCHAR(50),  
    PostalCode VARCHAR(10),  
    Region VARCHAR(20),  
    ProductID VARCHAR(20),  
    Category VARCHAR(20),  
    SubCategory VARCHAR(20),  
    ProductName VARCHAR(100),  
    Sales DECIMAL(10, 2),  
    Quantity INT,  
    Discount DECIMAL(4, 2),  
    Profit DECIMAL(10, 2)  
);

Step 3: Load the CSV Data into MySQL

Use the LOAD DATA INFILE statement to import the data from the CSV file into the MySQL table. Make sure the CSV file is accessible from the MySQL server. Here’s how you can do it:

LOAD DATA INFILE '[/path/to/your/sales\_data.csv](https://colab.research.google.com/drive/1YRHbD2UrUctRIS6XxkRZ0KFX1p4BzPpI?authuser=0)'   
INTO TABLE Sales   
FIELDS TERMINATED BY ','   
ENCLOSED BY '"'   
LINES TERMINATED BY '\n'  
IGNORE 1 ROWS  
(  
    RowID, OrderID, @OrderDate, @ShipDate, ShipMode, CustomerID, CustomerName, Segment, Country, City, State, PostalCode, Region, ProductID, Category, SubCategory, ProductName, Sales, Quantity, Discount, Profit  
)  
SET   
    OrderDate = STR\_TO\_DATE(@OrderDate, '%m/%d/%Y'),  
    ShipDate = STR\_TO\_DATE(@ShipDate, '%m/%d/%Y');

* Replace '[/path/to/your/sales\_data.csv](https://colab.research.google.com/drive/1YRHbD2UrUctRIS6XxkRZ0KFX1p4BzPpI?authuser=0)' with the actual path to your CSV file.
* FIELDS TERMINATED BY ',' specifies that fields are separated by commas.
* ENCLOSED BY '"' specifies that fields are enclosed in double quotes.
* LINES TERMINATED BY '\n' specifies that each line ends with a newline character.
* IGNORE 1 ROWS skips the header row in the CSV file.
* @OrderDate, @ShipDate are user variables used to temporarily hold the date strings, which are then converted to DATE format using STR\_TO\_DATE.

Step 4: Verify the Import

Run a SELECT query to verify that the data has been imported correctly:

SELECT \* FROM Sales;

Step 5: Handle Permissions (If Necessary)

If you encounter any permission issues with LOAD DATA INFILE, you may need to ensure that your MySQL server has the correct permissions to access the file. Alternatively, you can use the LOCAL keyword if the file is on the client machine:

LOAD DATA LOCAL INFILE '[/path/to/your/sales\_data.csv](https://colab.research.google.com/drive/1YRHbD2UrUctRIS6XxkRZ0KFX1p4BzPpI?authuser=0)'  
INTO TABLE Sales   
FIELDS TERMINATED BY ','   
ENCLOSED BY '"'   
LINES TERMINATED BY '\n'  
IGNORE 1 ROWS  
(  
    RowID, OrderID, @OrderDate, @ShipDate, ShipMode, CustomerID, CustomerName, Segment, Country, City, State, PostalCode, Region, ProductID, Category, SubCategory, ProductName, Sales, Quantity, Discount, Profit  
)  
SET   
    OrderDate = STR\_TO\_DATE(@OrderDate, '%m/%d/%Y'),  
    ShipDate = STR\_TO\_DATE(@ShipDate, '%m/%d/%Y');

Example CSV Content (for Reference)

Here’s an example of what your CSV file might look like:

RowID,OrderID,OrderDate,ShipDate,ShipMode,CustomerID,CustomerName,Segment,Country,City,State,PostalCode,Region,ProductID,Category,SubCategory,ProductName,Sales,Quantity,Discount,Profit  
1,CA-2016-152156,11/8/2016,11/11/2016,Second Class,CG-12520,Claire Gute,Consumer,United States,Henderson,Kentucky,42420,South,FUR-BO-10001798,Furniture,Bookcases,Bush Somerset Collection Bookcase,261.96,2,0,41.91  
2,CA-2016-152156,11/8/2016,11/11/2016,Second Class,CG-12520,Claire Gute,Consumer,United States,Henderson,Kentucky,42420,South,FUR-CH-10000454,Furniture,Chairs,Hon Deluxe Fabric Upholstered Stacking Chairs, Rounded Back,731.94,3,0,219.58  
3,CA-2016-138688,6/12/2016,6/16/2016,Second Class,DV-13045,Darrin Van Huff,Corporate,United States,Los Angeles,California,90036,West,OFF-LA-10000240,Office Supplies,Labels,Self-Adhesive Address Labels for Typewriters by Universal,14.62,2,0,6.87  
4,US-2015-108966,10/11/2015,10/18/2015,Standard Class,SO-20335,Sean O'Donnell,Consumer,United States,Fort Lauderdale,Florida,33311,South,FUR-TA-10000577,Furniture,Tables,Bretford CR4500 Series Slim Rectangular Table,957.58,5,0.45,-383.03  
5,US-2015-108966,10/11/2015,10/18/2015,Standard Class,SO-20335,Sean O'Donnell,Consumer,United States,Fort Lauderdale,Florida,33311,South,OFF-ST-10000760,Office Supplies,Storage,Eldon Fold 'N Roll Cart System,22.37,2,0.2,2.52

By following these steps, you should be able to import your dataset from a CSV file into MySQL successfully.