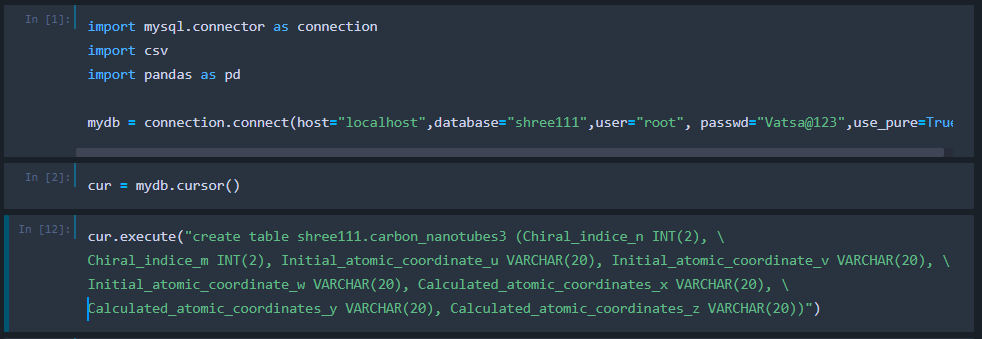
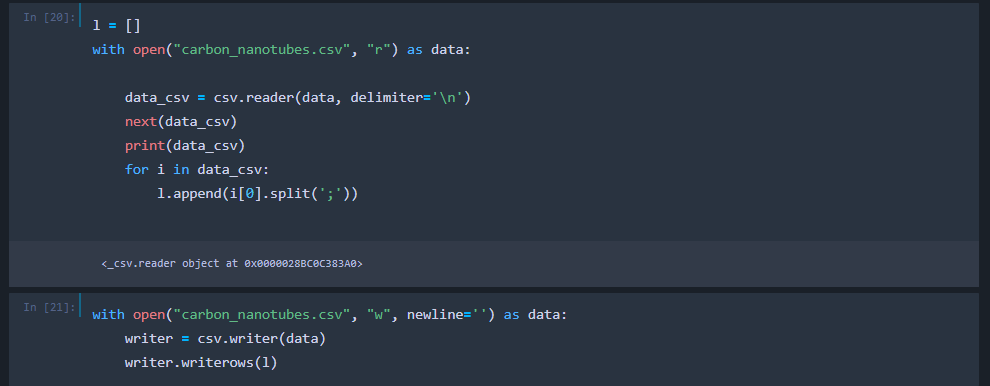
**The SQL SETUP**

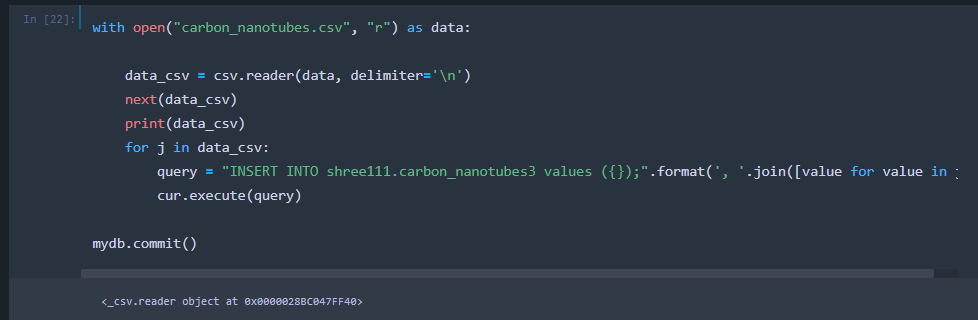
Setting up carbon\_nanotubes data:

Create Table and columns





Inserting values:



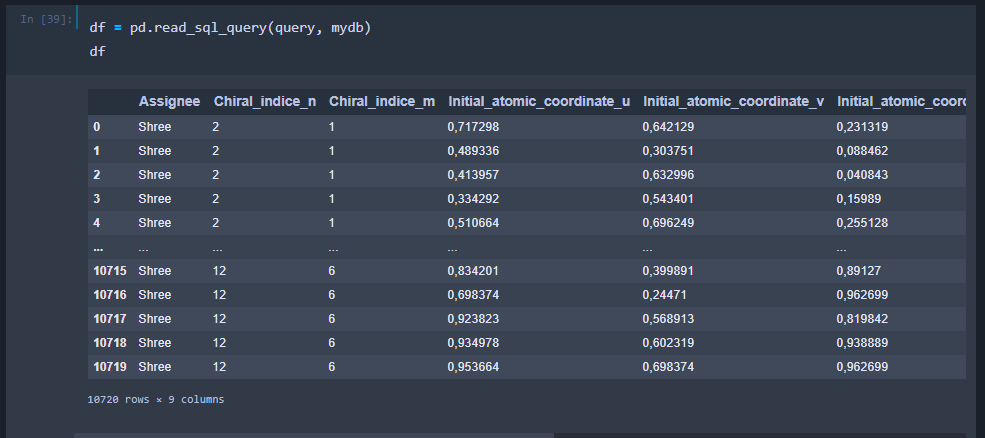
Alter -> Add a column Assignee -> Replace all null values with name “Shree”

Then read the data

Queries used:

ALTER TABLE shree111.carbon\_nanotubes3 ADD Assignee VARCHAR(100) FIRST;

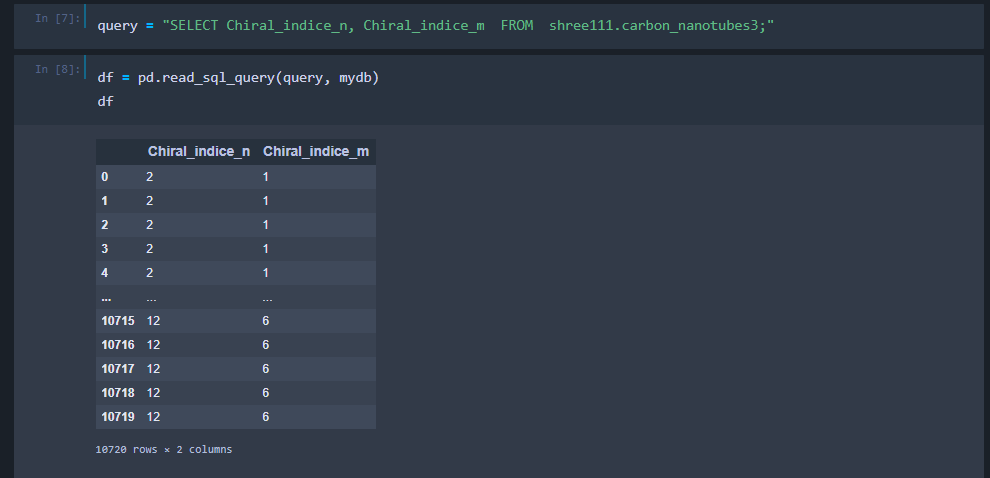
UPDATE shree111.carbon\_nanotubes3 SET Assignee='Shree' WHERE Assignee IS NULL;



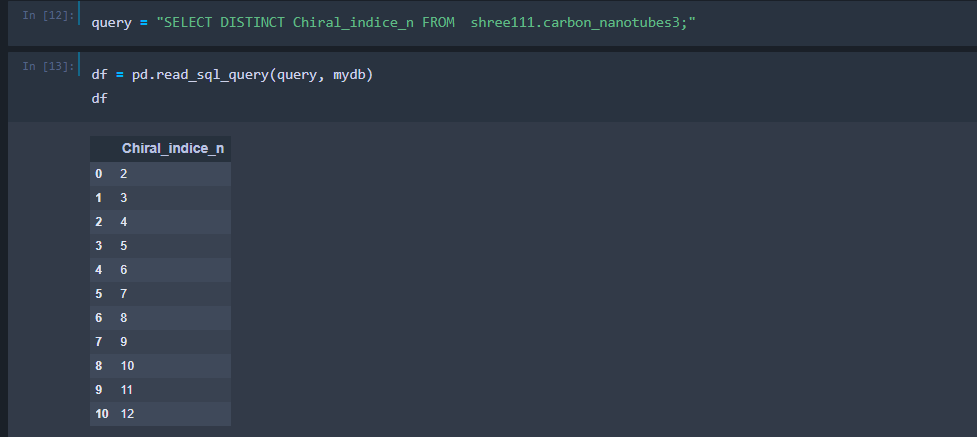
**The SQL SELECT QUERY**

## The SQL SELECT DISTINCT

1. Select first 2 columns of the table

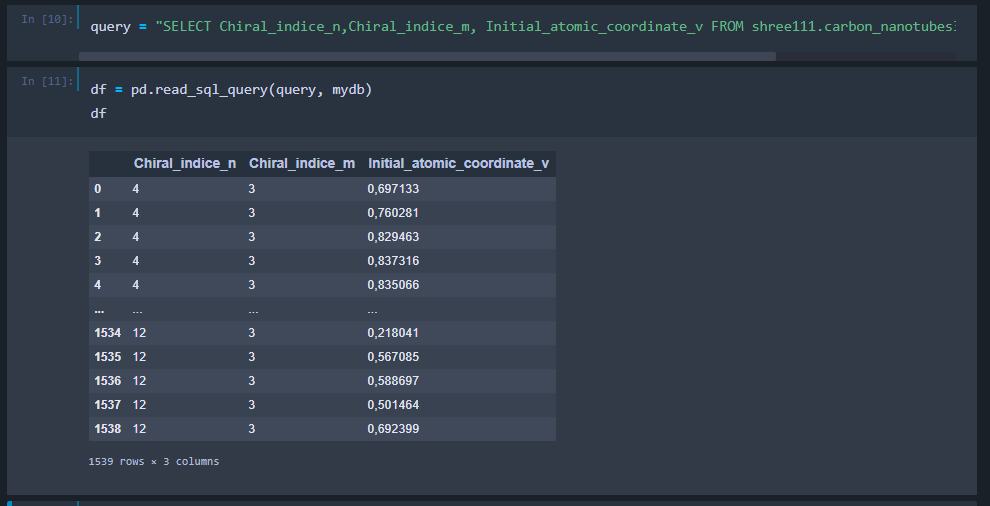


1. Select distinct elements from the column



## The SQL WHERE CLAUSE

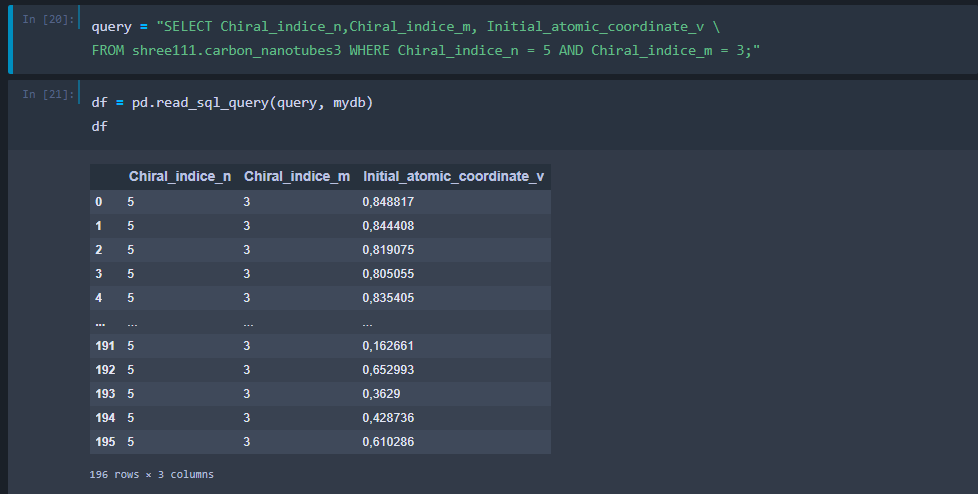
SELECT Chiral\_indice\_n, Initial\_atomic\_coordinate\_v FROM shree111.carbon\_nanotubes3 WHERE Chiral\_indice\_m = 3;



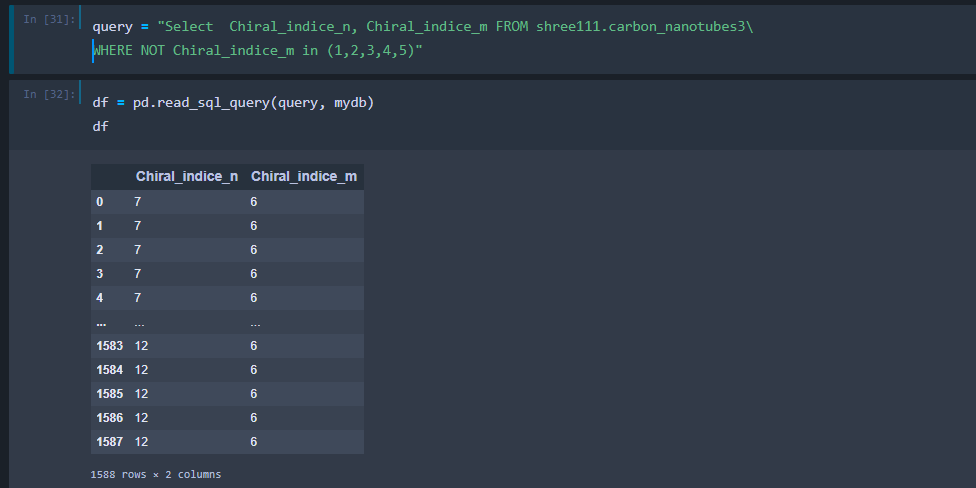
## The SQL WHERE CLAUSE WITH AND, OR & NOT

**A WHERE clause with AND**:

SELECT Chiral\_indice\_n,Chiral\_indice\_m, Initial\_atomic\_coordinate\_v FROM shree111.carbon\_nanotubes3 WHERE Chiral\_indice\_n = 5 AND Chiral\_indice\_m = 3;



**A WHERE clause with NOT:**

Select Chiral\_indice\_n, Chiral\_indice\_m FROM shree111.carbon\_nanotubes3 WHERE NOT Chiral\_indice\_m in (1,2,3,4,5)

## The SQL ORDER BY

Order by is used to print the values from the table in order(ascending or descending)

**Order By in Descending order**

Select Chiral\_indice\_n, Chiral\_indice\_m FROM shree111.carbon\_nanotubes3 ORDER BY Chiral\_indice\_n DESC;

