**MEDICAL INVENTORY OPTIMIZATION**

**(By sadnya kolhe)**

THE PREPROCESSING OF DATA SET USING SQL (MYSQL)

**#To know the number of rows and columns in the data set**

**Query:-**

#count number of rows

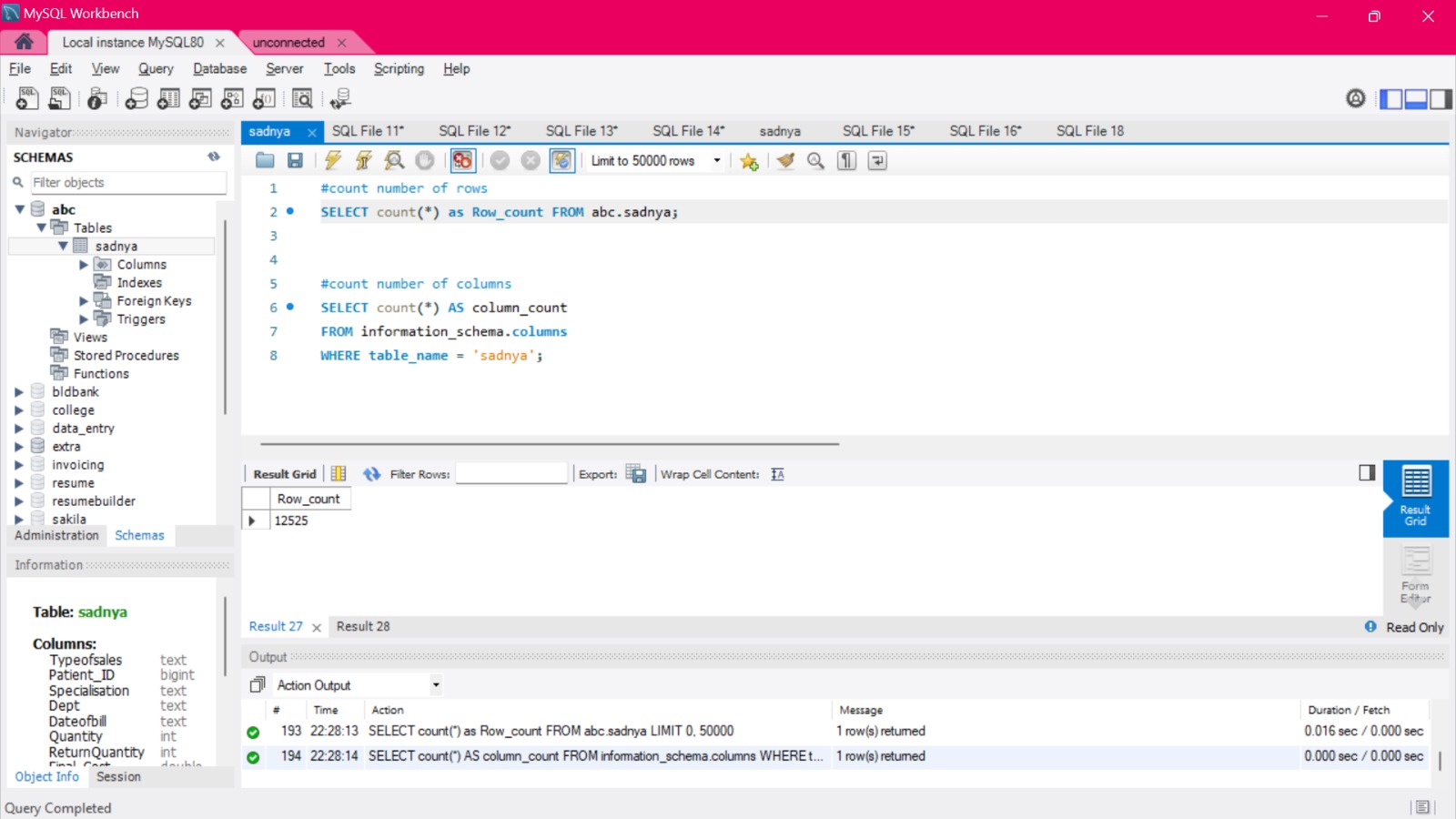
SELECT count(\*) as Row\_count FROM abc.sadnya;

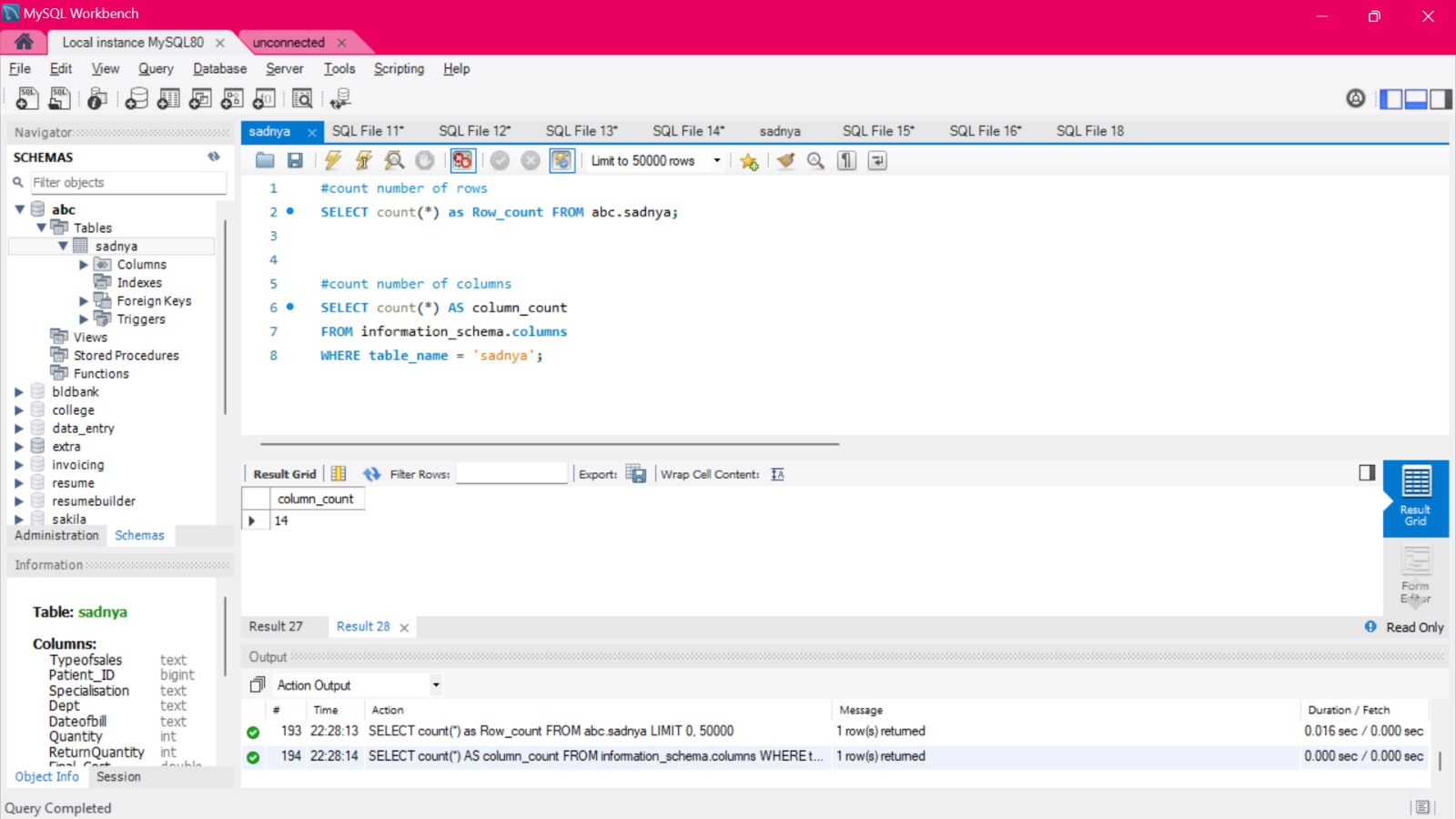
#count number of columns

SELECT count(\*) AS column\_count

FROM information\_schema.columns

WHERE table\_name = 'sadnya';

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**#To know the data type of of all parameter in data set**

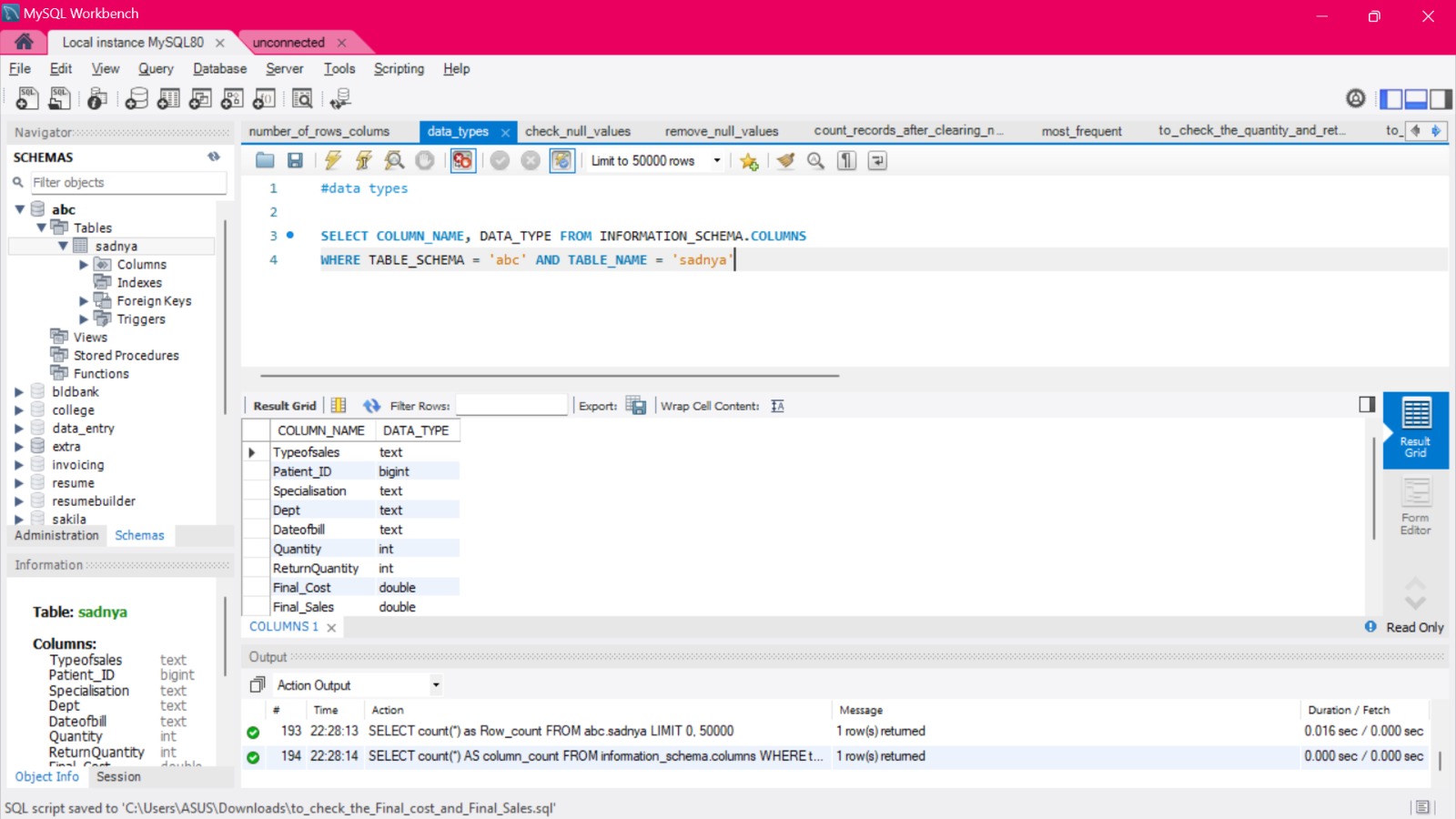
**Query:-**

**#data types**

SELECT COLUMN\_NAME, DATA\_TYPE FROM INFORMATION\_SCHEMA.COLUMNS

WHERE TABLE\_SCHEMA = 'abc' AND TABLE\_NAME = 'sadnya'

|  |  |
| --- | --- |
| **COLUMN\_NAME** | **DATA\_TYPE** |
| Type\_of\_sale | **Text** |
| Patient \_ID | **Bigint** |
| Specilisation | **Text** |
| Dept | **Text** |
| Date\_of\_bill | **Text** |
| Quantity | **Int** |
| Return\_Quantity | **Int** |
| Final\_cost | **Double** |
| Final\_sale | **double** |

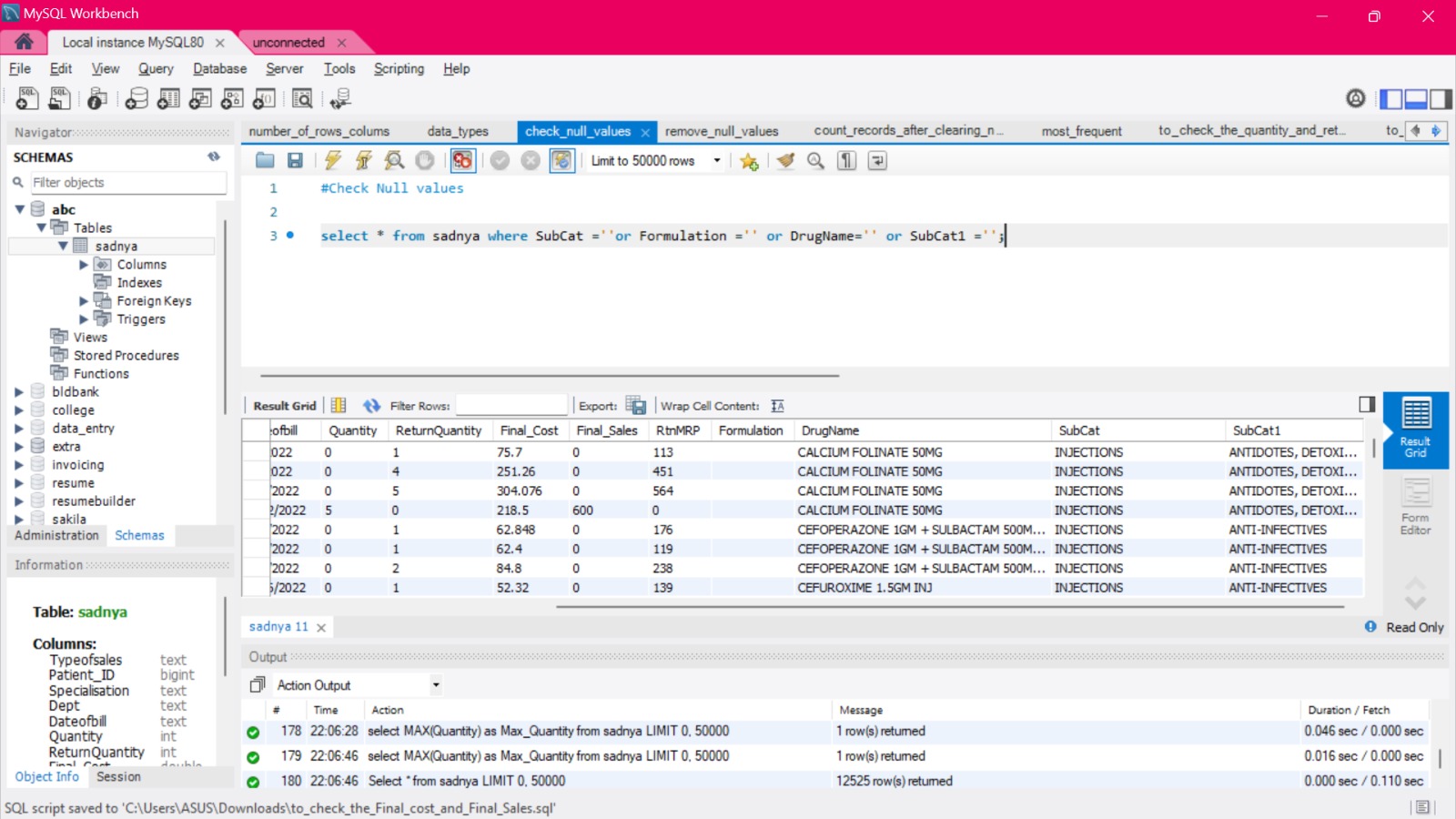
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**# To check the null values in the whole dataset**

**Query:-**

#Check Null values

select \* from sadnya where SubCat =''or Formulation ='' or DrugName='' or SubCat1 ='';

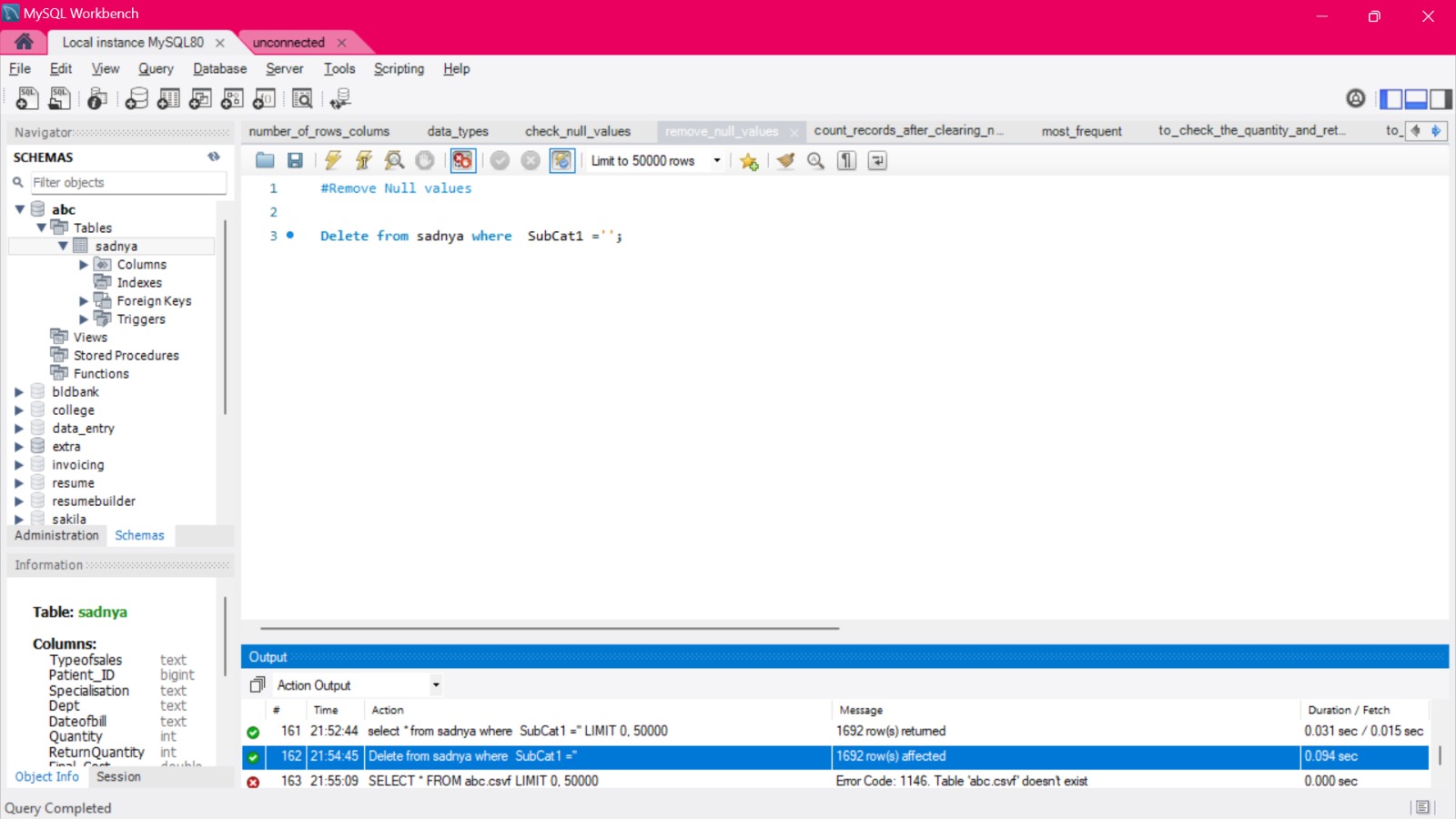
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**# To remove or delete the null values in dataset**

**Query:-**

#Remove Null values

Delete from sadnya where SubCat1 ='';

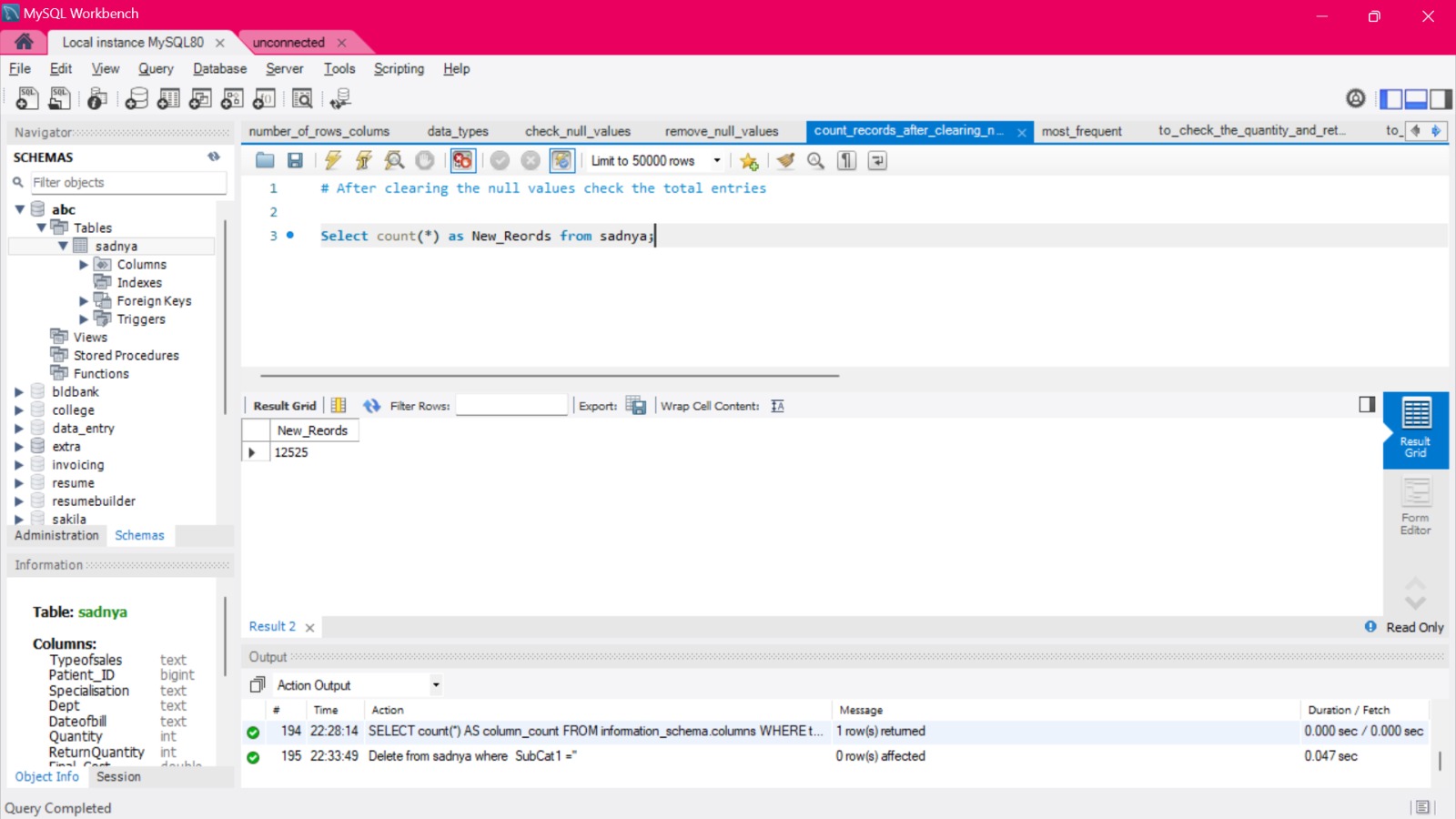
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**# After clearing the null values to check the total entries**

**Query:-**

# After clearing the null values check the total entries

Select count(\*) as New\_Reords from sadnya;

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**#Finding the most frequent value in specialization, sub cat 1, sub cat**

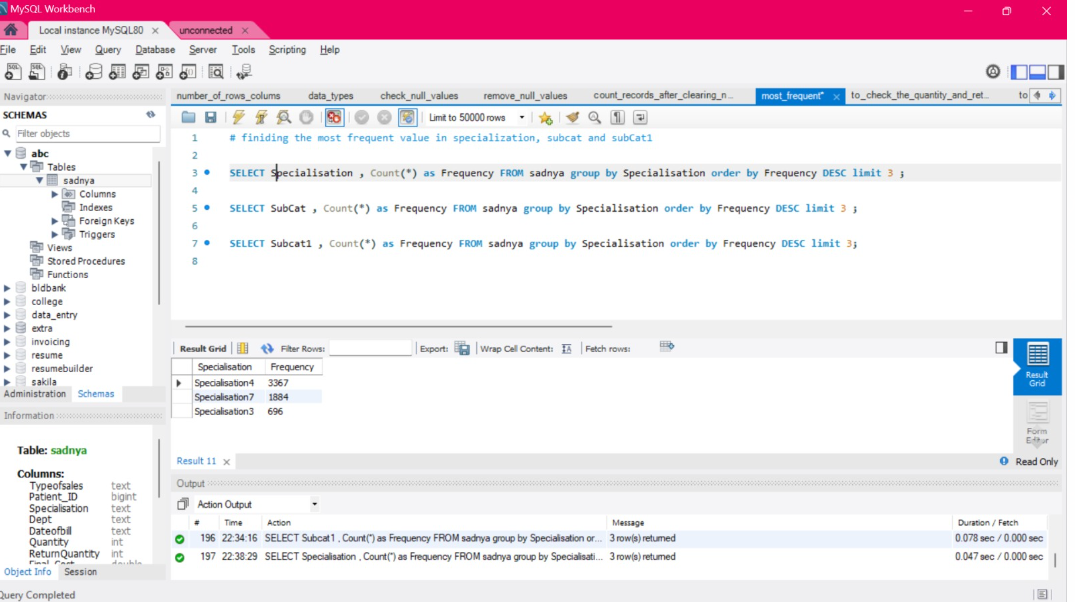
**Query:-**

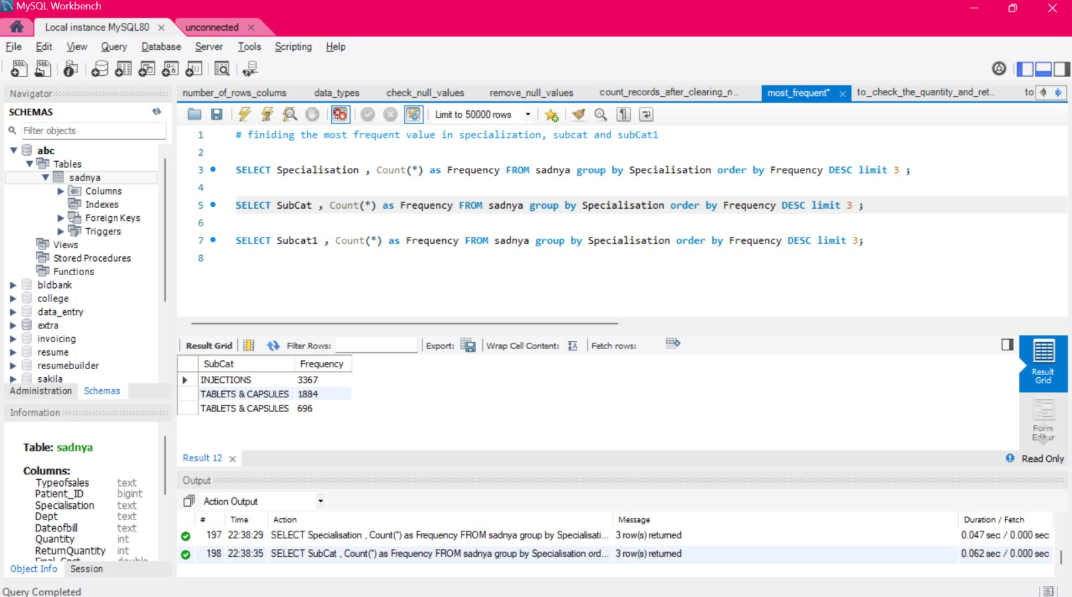
# finiding the most frequent value in specialization, subcat and subCat1

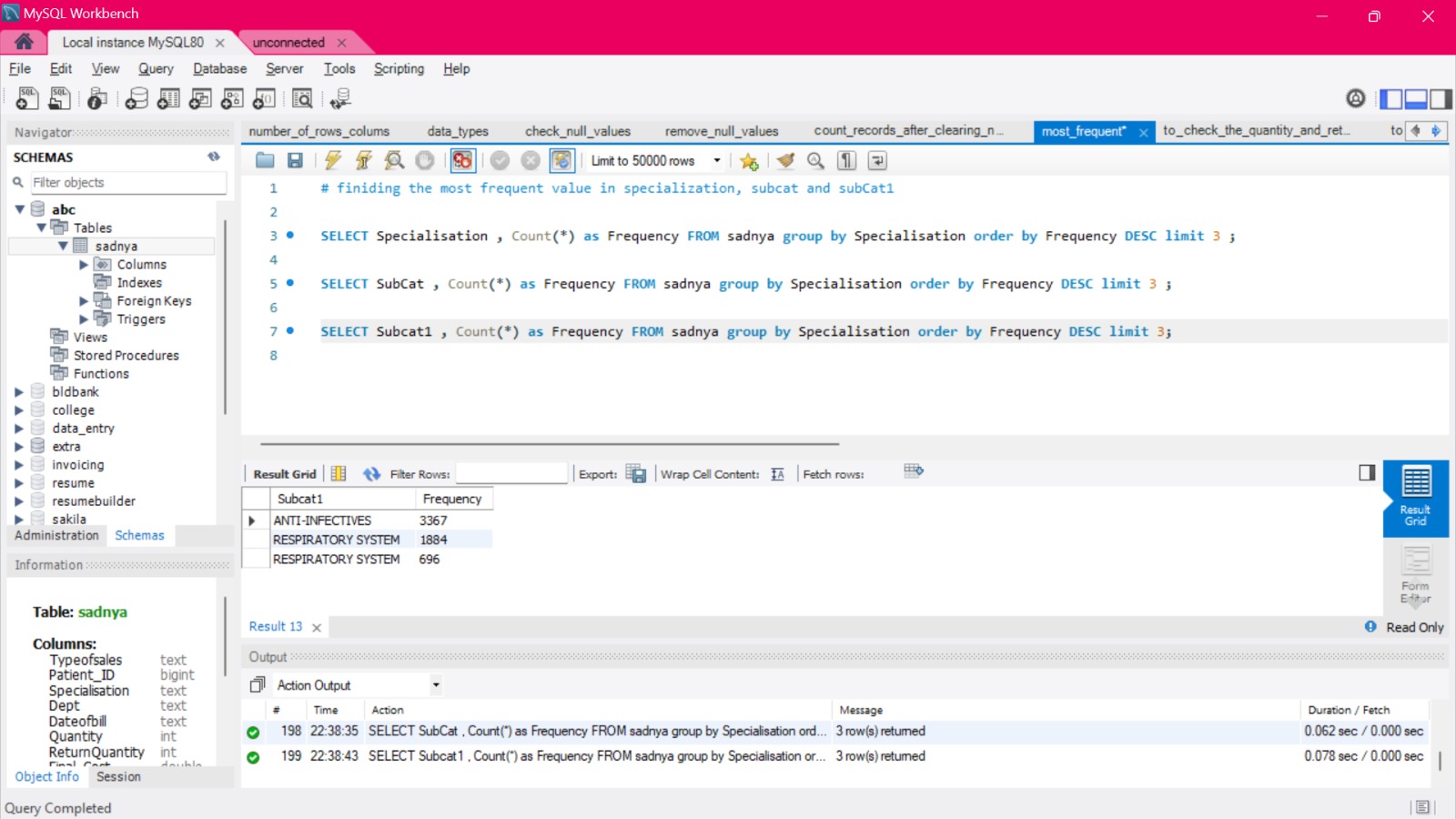
SELECT Specialisation , Count(\*) as Frequency FROM sadnya group by Specialisation order by Frequency DESC limit 3 ;

SELECT SubCat , Count(\*) as Frequency FROM sadnya group by Specialisation order by Frequency DESC limit 3 ;

SELECT Subcat1 , Count(\*) as Frequency FROM sadnya group by Specialisation order by Frequency DESC limit 3;



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**#To check the avg ,min max, var ,std of Quantity and Return Quantity**

**Query:-**

# to check the quantity and return quantity

select AVG(Quantity) as Avg\_Quantity ,

MAX(Quantity) as Max\_Quantity ,

MIN(Quantity) as Min\_Quantity ,

STDDEV(Quantity) as StdDev\_Quantity ,

variance(Quantity) as Var\_Qunatity

from sadnya ;

select AVG(ReturnQuantity) as Avg\_Ret\_Quantity ,

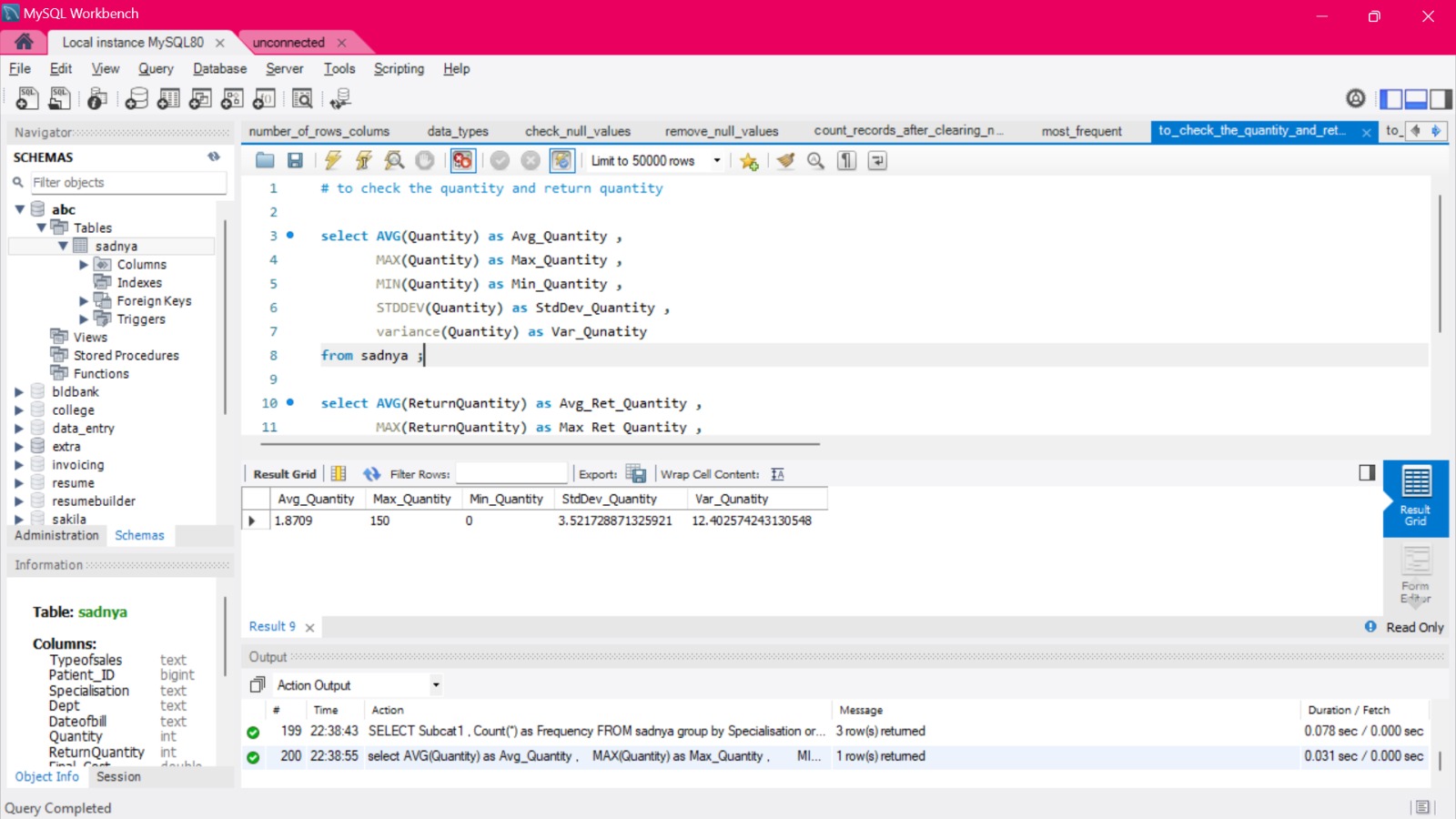
MAX(ReturnQuantity) as Max\_Ret\_Quantity ,

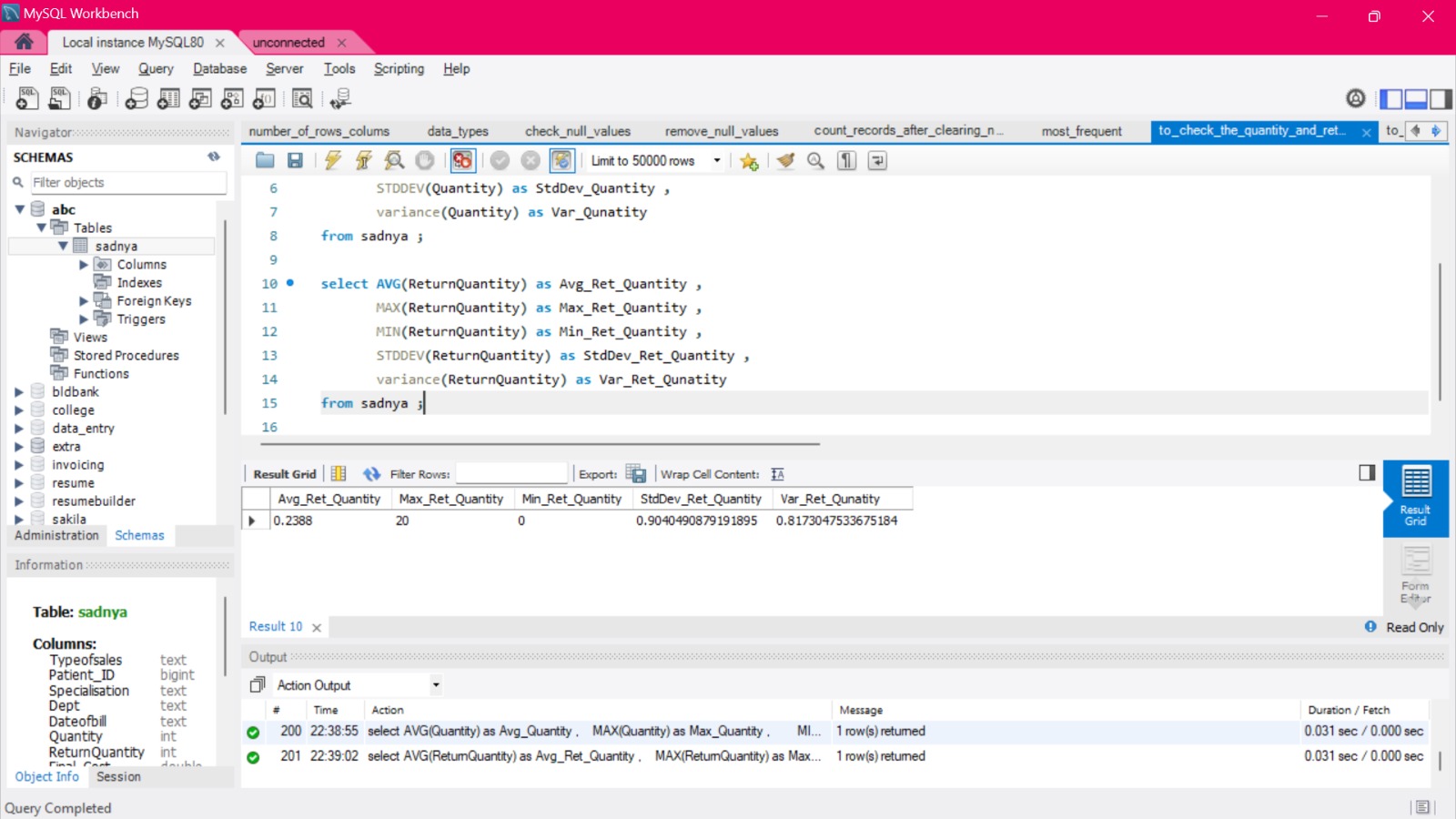
MIN(ReturnQuantity) as Min\_Ret\_Quantity ,

STDDEV(ReturnQuantity) as StdDev\_Ret\_Quantity ,

variance(ReturnQuantity) as Var\_Ret\_Qunatity

from sadnya ;

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**#To check the avg , min, max, var ,std of final cost and final sale**

**Query:-**

# to check the Final\_Cost and Final\_Sales

select AVG(Final\_Cost) as Avg\_Final\_Cost ,

MAX(Final\_Cost) as Max\_Final\_Cost ,

MIN(Final\_Cost) as Min\_Final\_Cost ,

STDDEV(Final\_Cost) as StdDev\_Final\_Cost ,

variance(Final\_Cost) as Var\_Final\_Cost

from sadnya ;

select AVG(Final\_Sales) as Avg\_Final\_Sales ,

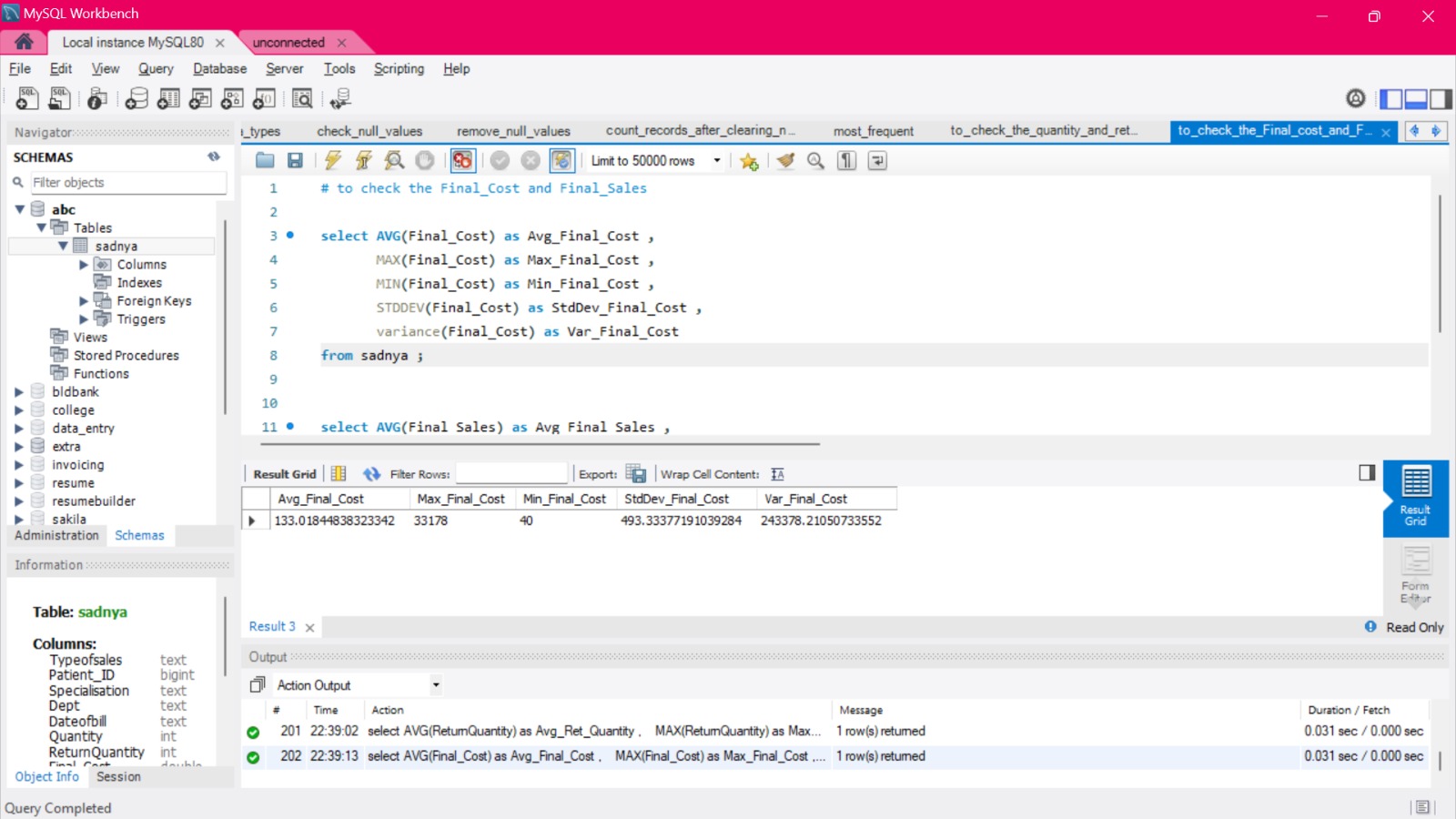
MAX(Final\_Sales) as Max\_Final\_Sales ,

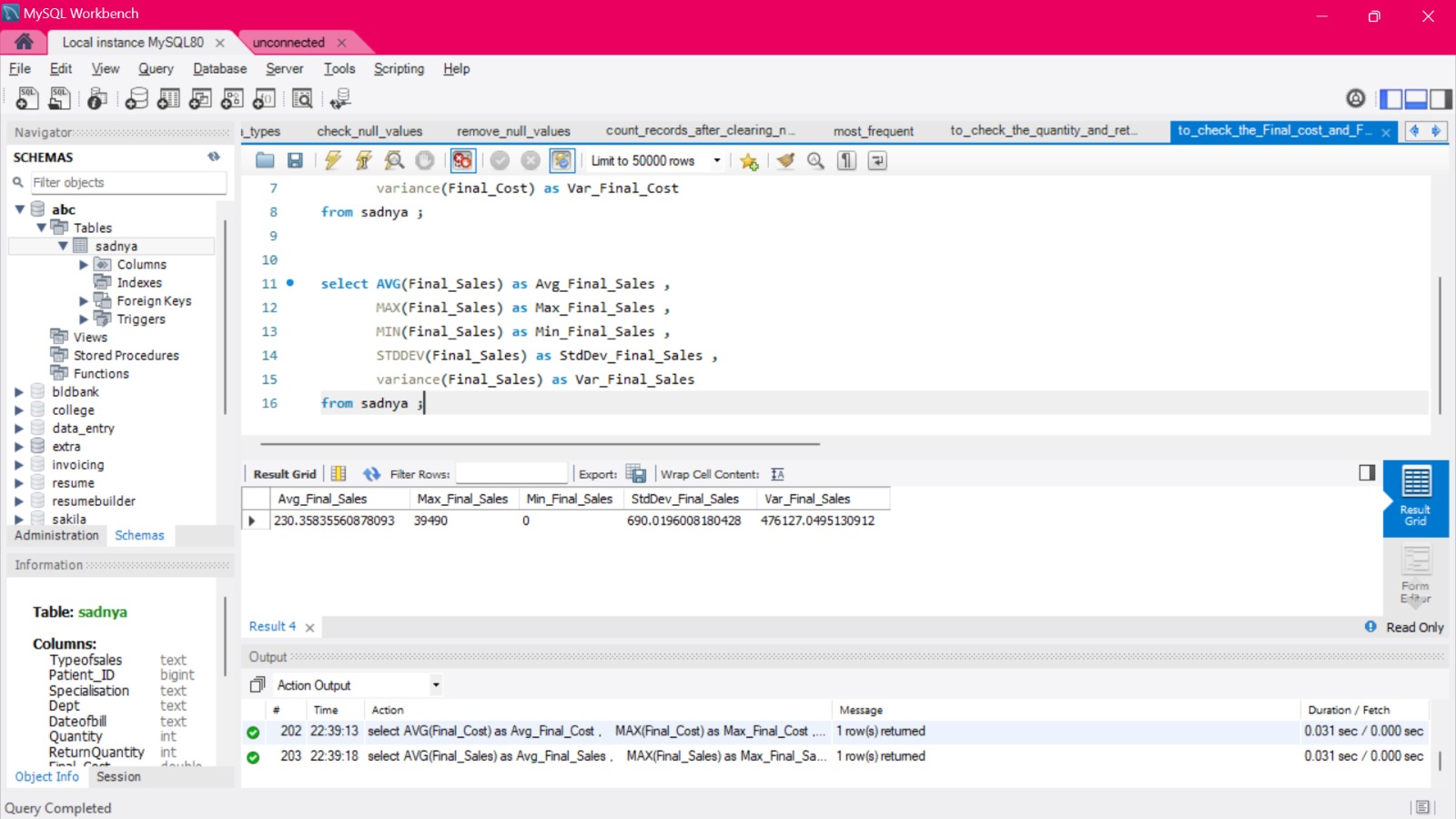
MIN(Final\_Sales) as Min\_Final\_Sales ,

STDDEV(Final\_Sales) as StdDev\_Final\_Sales ,

variance(Final\_Sales) as Var\_Final\_Sales

from sadnya ;

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