Scenario Based Question

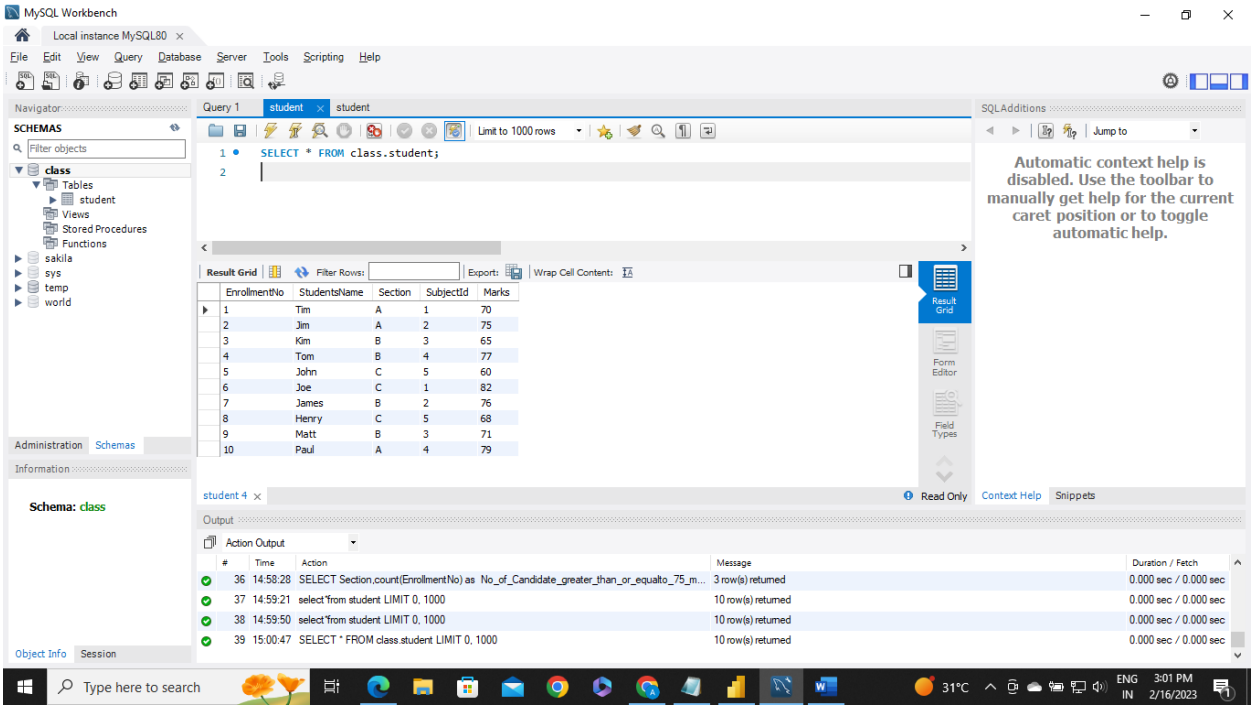
Topic: SQL

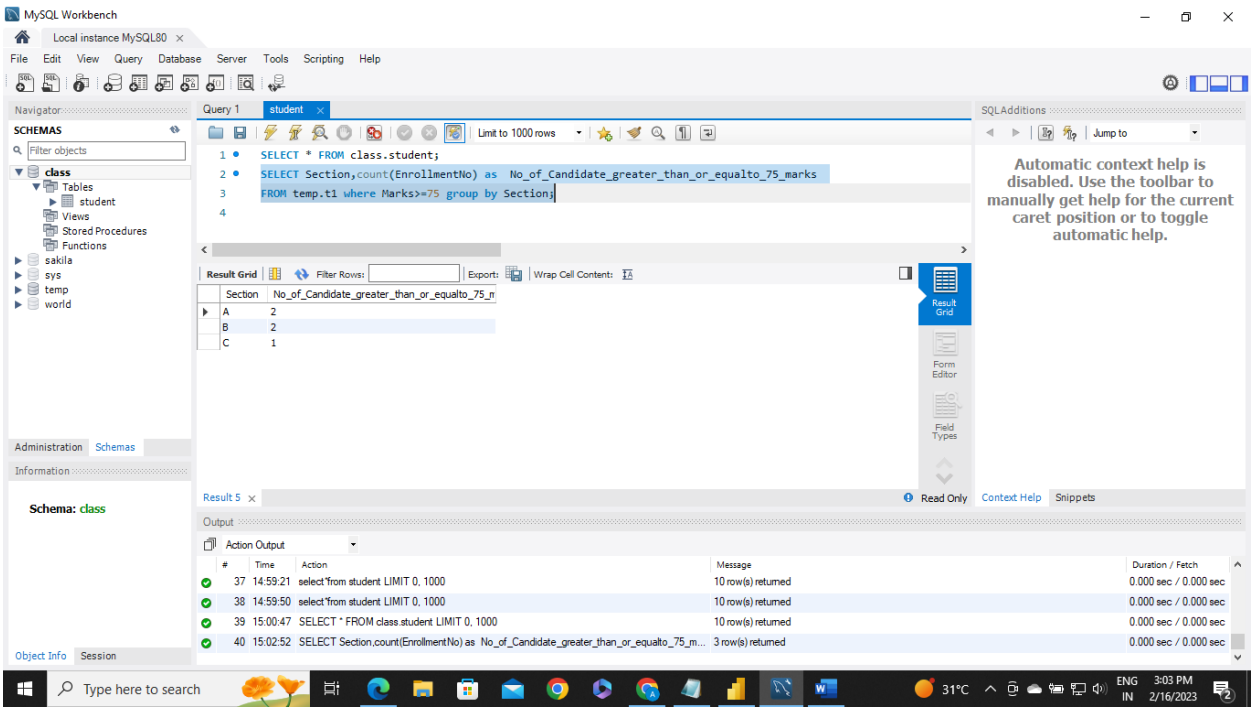
1**. To solve this following should be done:**

a. Create Database Class as mentioned in MySQL Workbench.
b. Create Table student as mentioned in MySQL Workbench.
c. Run the following query to get the desired result:
‘ SELECT * FROM class.student; ‘

' SELECT Section, count(EnrollmentNo) as No_of_Candidate_greater_than_or_equalto_75_marks

FROM temp.t1 where Marks>=75 group by Section ; '

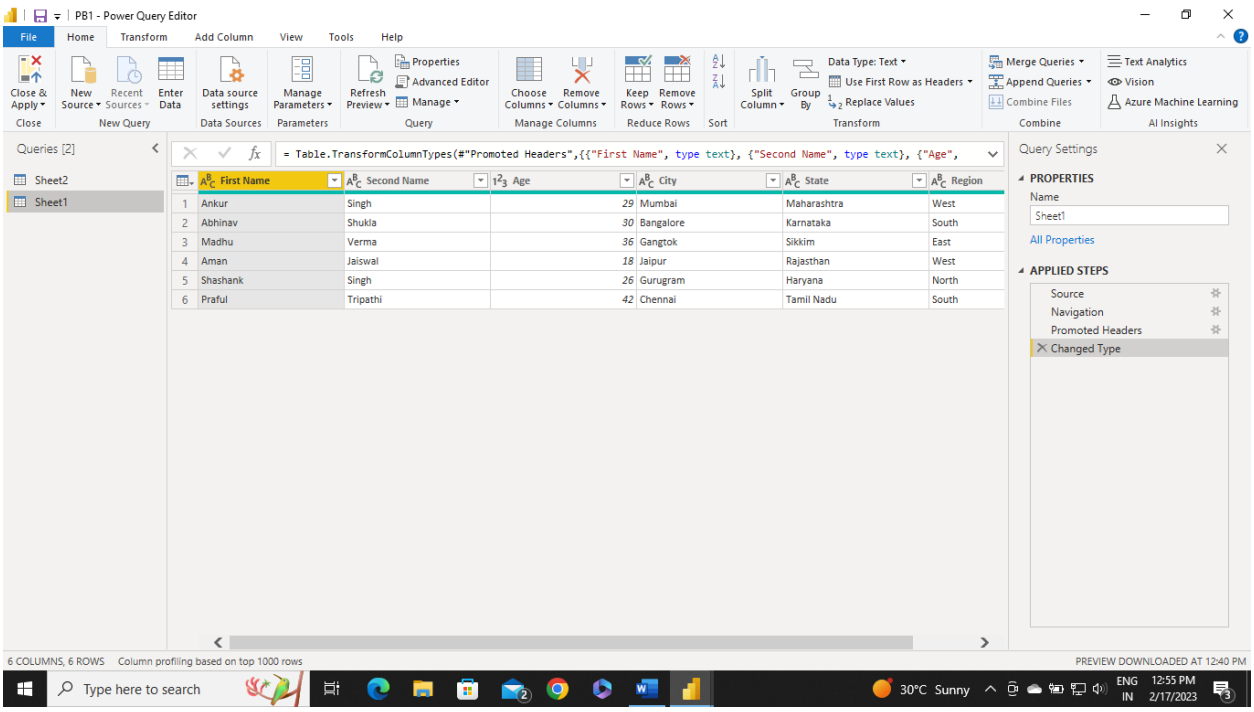


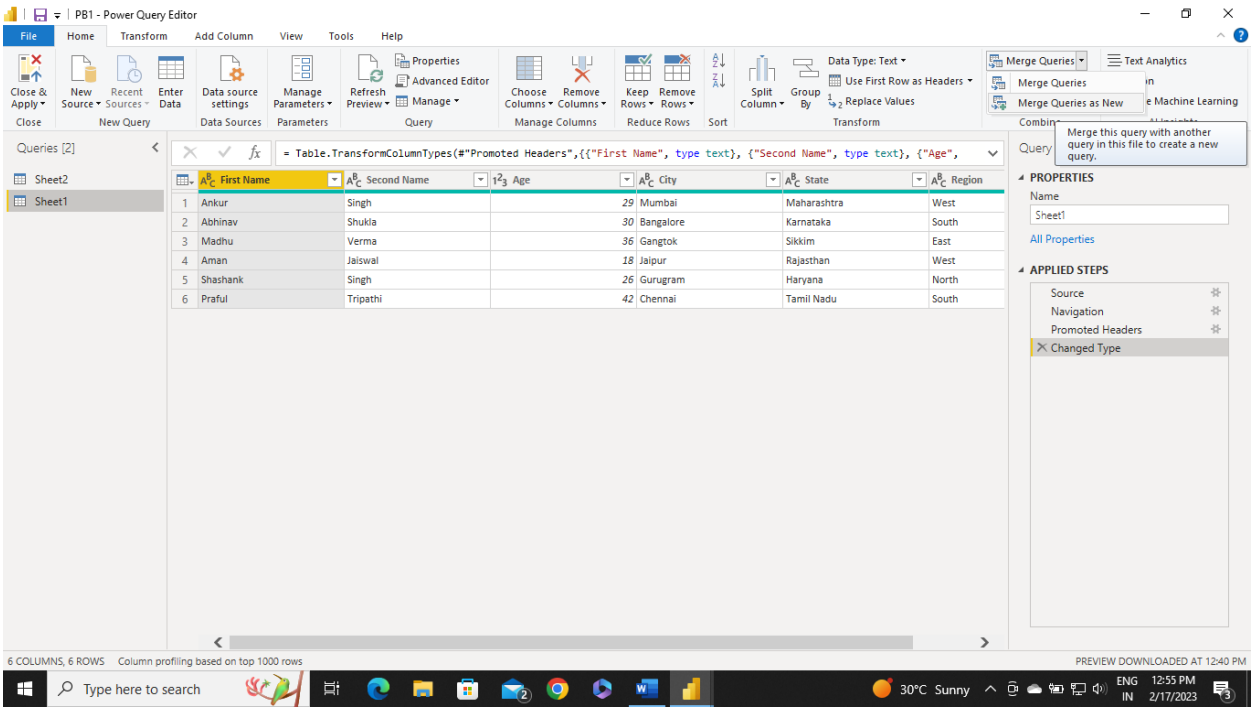

MySQL Workbench
Local instance MySQL80
File Edit View Query Database Server Tools Scripting Help
Navigator
SCHEMAS
Filter objects
class
Tables
student
Views
Stored Procedures
Functions
sakila
sys
temp
world
Administration Schemas
Information
Schema: class
Object Info Session
Query 1
student
Limit to 1000 rows
1 SELECT * FROM class.student;
2 SELECT Section,count(EnrollmentNo) as No_of_Candidate_greater_than_or_equalto_75_marks
3 FROM temp.t1 where Marks>=75 group by Section;
4
Result Grid
Filter Rows:
Export:
Wrap Cell Content:
Section
No_of_Candidate_greater_than_or_equalto_75_m
A 2
B 2
C 1
Result Grid
Form Editor
Field Types
Result 5
Read Only
SQLAdditions
Jump to
Automatic context help is disabled. Use the toolbar to manually get help for the current caret position or to toggle automatic help.
Context Help Snippets
Output
Action Output
Time Action Message Duration / Fetch
37 14:59:21 select*from student LIMIT 0, 1000 10 row(s) returned 0.000 sec / 0.000 sec
38 14:59:50 select*from student LIMIT 0, 1000 10 row(s) returned 0.000 sec / 0.000 sec
39 15:00:47 SELECT * FROM class.student LIMIT 0, 1000 10 row(s) returned 0.000 sec / 0.000 sec
40 15:02:52 SELECT Section,count(EnrollmentNo) as No_of_Candidate_greater_than_or_equalto_75_m... 3 row(s) returned 0.000 sec / 0.000 sec
Type here to search
31°C
ENG IN
3:03 PM 2/16/2023

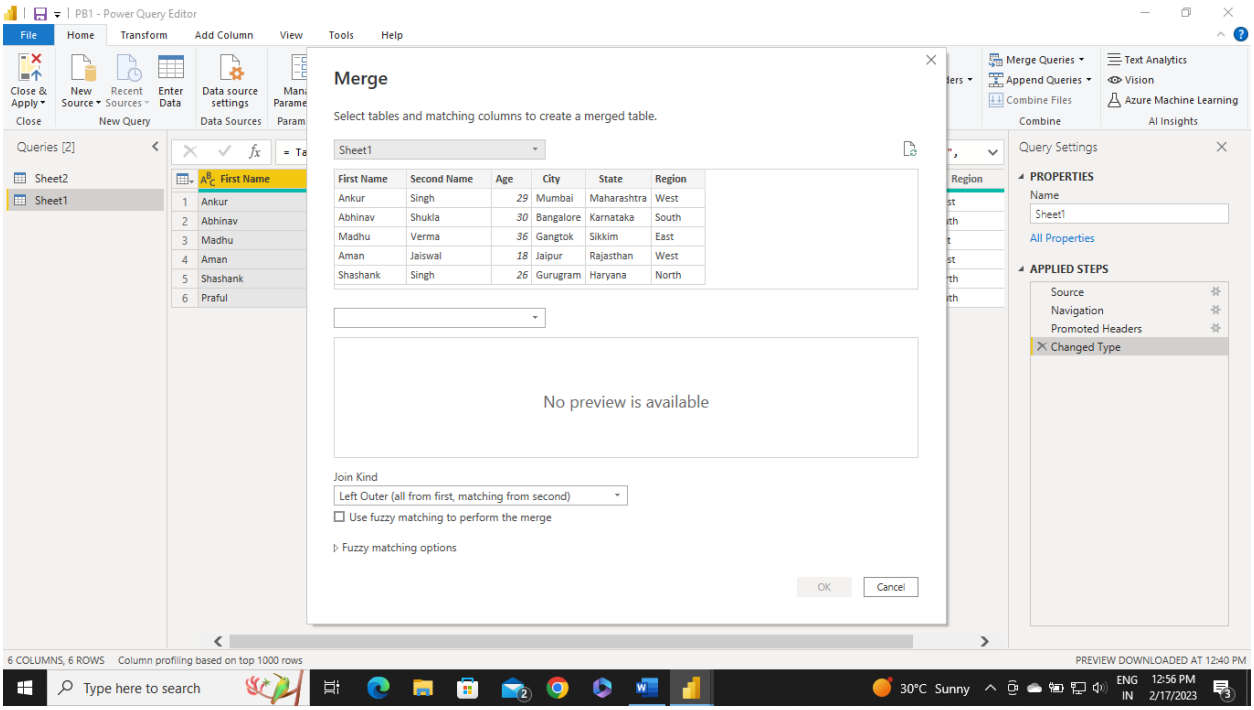
Topic: Microsoft Power BI

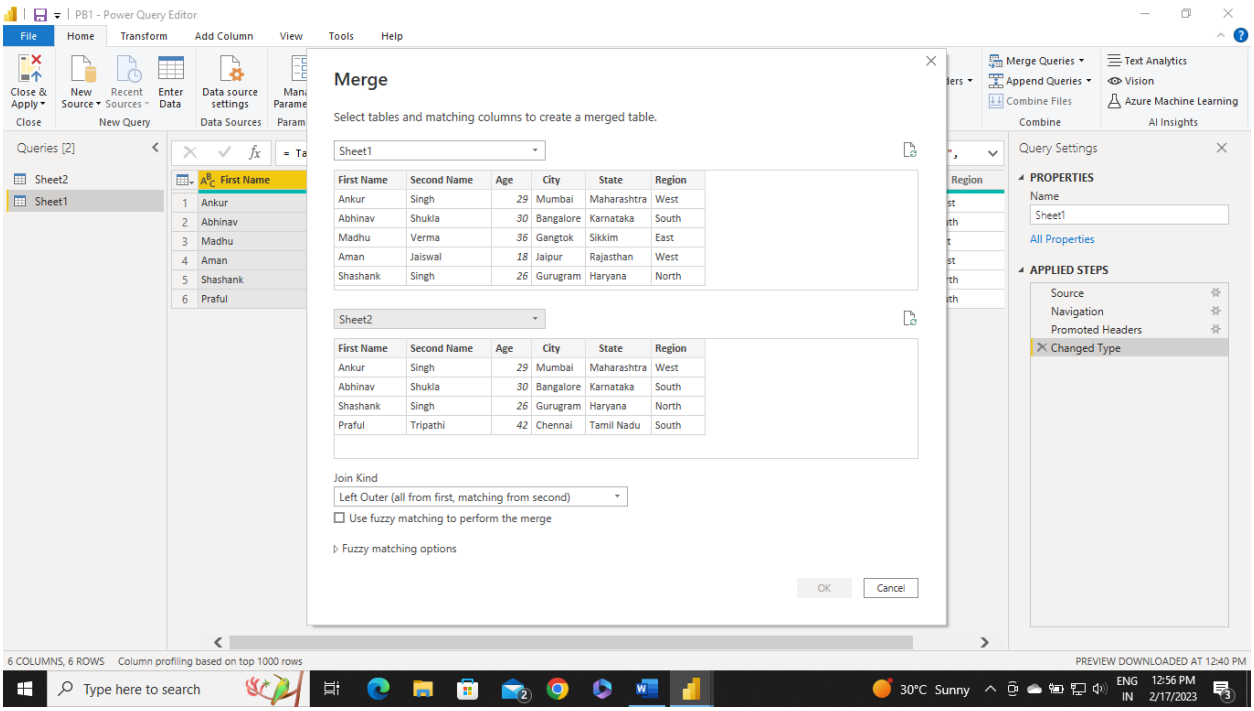
2. To solve this Apoorva should do the following:

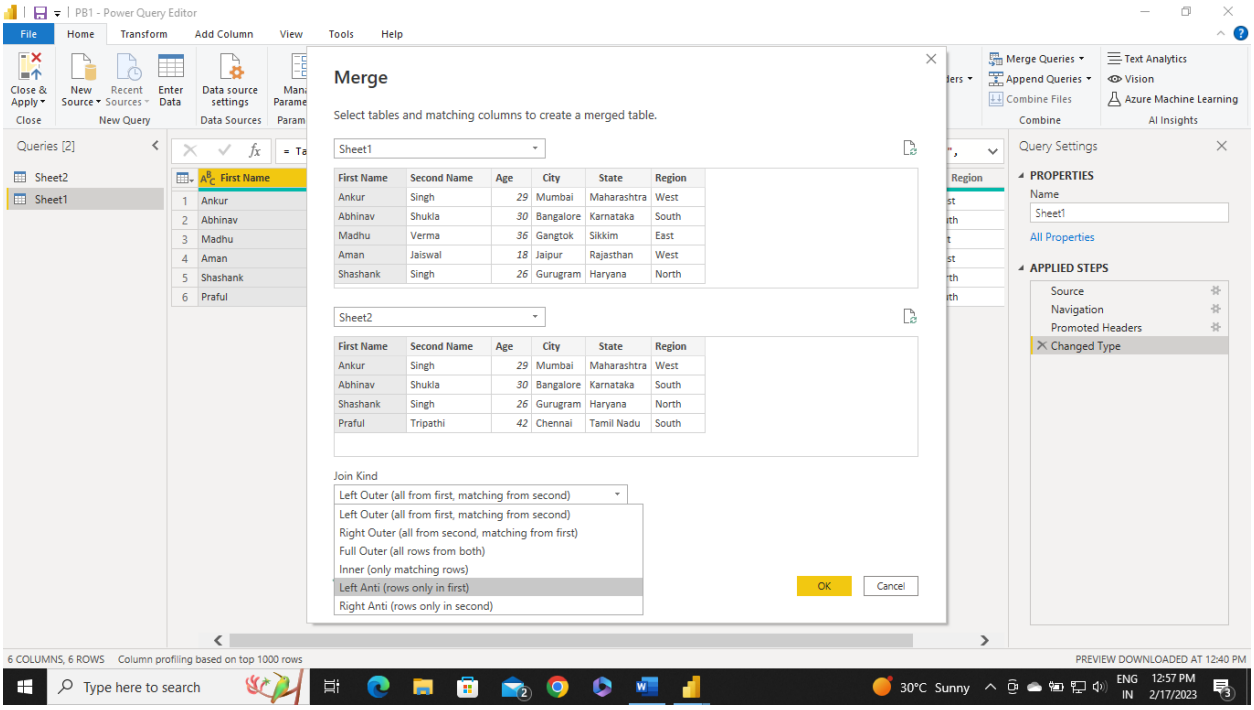
a. Open Power BI editor and in that open both the table.
b. Select table 1 and go for power query by clicking Transform data.
c. In right hand side panel selects merge query and then select merge query as new.
d. In merge query select sheet 1 as first and sheet 2 as second and click first name in both sheets holding CTRL button.
e. In join kind drop-down menu select Left Outer (All from first, matching from second).
f. Now click on Ok button. The required Table (Merge 1) will be created having the desired Output.




PB1 - Power Query Editor
File
Home
Transform
Add Column
View
Tools
Help
Close & Apply
New Source
Recent Sources
Enter Data
Data source settings
Manage Parameters
Refresh Preview
Properties
Advanced Editor
Manage
Choose Columns
Remove Columns
Keep Rows
Remove Rows
Split Column
Group By
Data Type: Text
Use First Row as Headers
Replace Values
Merge Queries
Merge Queries
Merge Queries as New
Text Analytics
Azure Machine Learning
Close
New Query
Data Sources
Parameters
Query
Manage Columns
Reduce Rows
Sort
Transform
Combine
Merge this query with another query in this file to create a new query.
Queries [2]
Sheet2
Sheet1
= Table.TransformColumnTypes(#"Promoted Headers",{{"First Name", type text}, {"Second Name", type text}, {"Age",
First Name
Second Name
Age
City
State
Region
1 Ankur Singh 29 Mumbai Maharashtra West
2 Abhinav Shukla 30 Bangalore Karnataka South
3 Madhu Verma 36 Gangtok Sikkim East
4 Aman Jaiswal 18 Jaipur Rajasthan West
5 Shashank Singh 26 Gurugram Haryana North
6 Praful Tripathi 42 Chennai Tamil Nadu South
Query Settings
PROPERTIES
Name
Sheet1
All Properties
APPLIED STEPS
Source
Navigation
Promoted Headers
Changed Type
6 COLUMNS, 6 ROWS
Column profiling based on top 1000 rows
PREVIEW DOWNLOADED AT 12:40 PM
Type here to search
30°C Sunny
ENG IN
12:55 PM
2/17/2023


PB1 - Power Query Editor
Merge
Select tables and matching columns to create a merged table.
Sheet1
First Name
Second Name
Age
City
State
Region
Ankur Singh 29 Mumbai Maharashtra West
Abhinav Shukla 30 Bangalore Karnataka South
Madhu Verma 36 Gangtok Sikkim East
Aman Jaiswal 18 Jaipur Rajasthan West
Shashank Singh 26 Gurugram Haryana North
No preview is available
Join Kind
Left Outer (all from first, matching from second)
Use fuzzy matching to perform the merge
Fuzzy matching options
OK
Cancel
Append Queries
Combine Files
Vision
Azure Machine Learning
Combine
AI Insights
Query Settings
PROPERTIES
Name
Sheet1
All Properties
APPLIED STEPS
Source
Navigation
Promoted Headers
Changed Type
6 COLUMNS, 6 ROWS
Column profiling based on top 1000 rows
PREVIEW DOWNLOADED AT 12:40 PM
Type here to search
30°C Sunny
ENG IN
12:56 PM
2/17/2023


PB1 - Power Query Editor
File
Home
Transform
Add Column
View
Tools
Help
Close & Apply
New Source
Recent Sources
Enter Data
Data source settings
Manage Parameters
Close
New Query
Data Sources
Parameters
Merge Queries
Append Queries
Combine Files
Text Analytics
Vision
Azure Machine Learning
Combine
AI Insights
Queries [2]
Sheet2
Sheet1
First Name
1 Ankur
2 Abhinav
3 Madhu
4 Aman
5 Shashank
6 Praful
Merge
Select tables and matching columns to create a merged table.
Sheet1
First Name | Second Name | Age | City | State | Region
Ankur | Singh | 29 | Mumbai | Maharashtra | West
Abhinav | Shukla | 30 | Bangalore | Karnataka | South
Madhu | Verma | 36 | Gangtok | Sikkim | East
Aman | Jaiswal | 18 | Jaipur | Rajasthan | West
Shashank | Singh | 26 | Gurugram | Haryana | North
Sheet2
First Name | Second Name | Age | City | State | Region
Ankur | Singh | 29 | Mumbai | Maharashtra | West
Abhinav | Shukla | 30 | Bangalore | Karnataka | South
Shashank | Singh | 26 | Gurugram | Haryana | North
Praful | Tripathi | 42 | Chennai | Tamil Nadu | South
Join Kind
Left Outer (all from first, matching from second)
Use fuzzy matching to perform the merge
Fuzzy matching options
OK
Cancel
Query Settings
PROPERTIES
Name
Sheet1
All Properties
APPLIED STEPS
Source
Navigation
Promoted Headers
Changed Type
6 COLUMNS, 6 ROWS
Column profiling based on top 1000 rows
PREVIEW DOWNLOADED AT 12:40 PM
Type here to search
30°C Sunny
ENG IN
12:56 PM
2/17/2023


PB1 - Power Query Editor
File
Home
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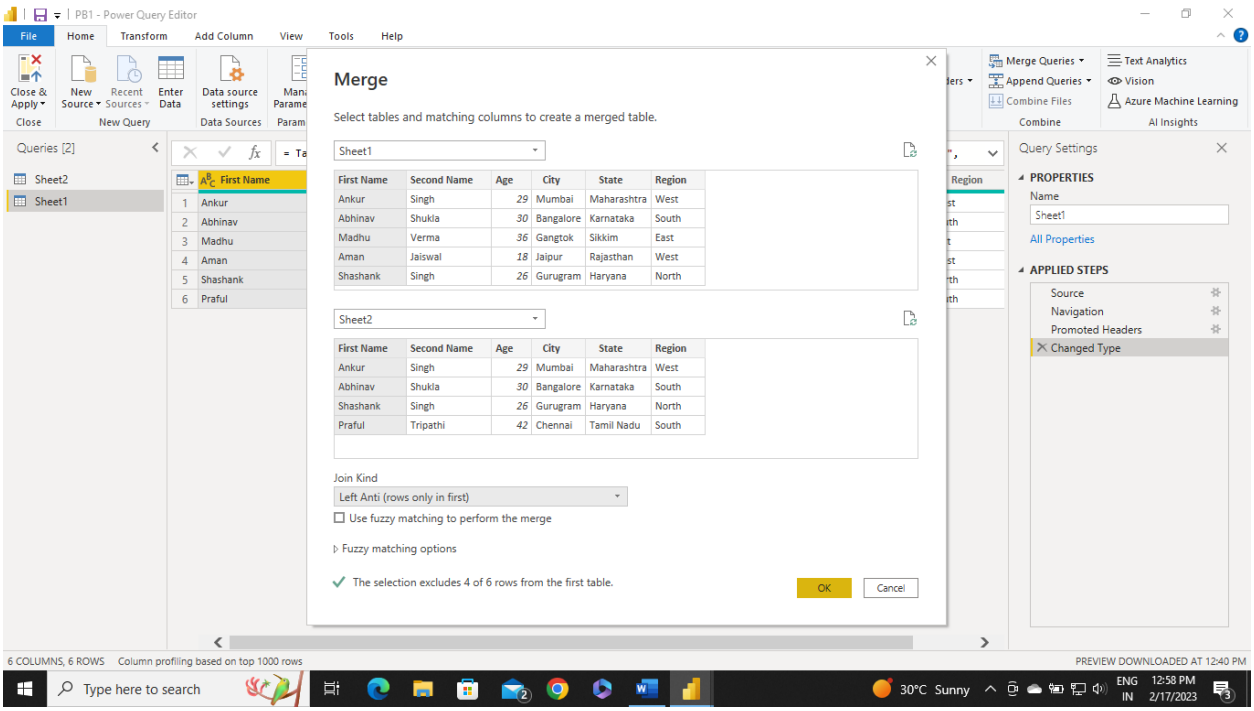
Help
Close & Apply
New Source
Recent Sources
Enter Data
Data source settings
Manage Parameters
Close
New Query
Data Sources
Parameters
Merge Queries
Append Queries
Combine Files
Text Analytics
Vision
Azure Machine Learning
Combine
AI Insights
Queries [2]
Sheet2
Sheet1
First Name
1 Ankur
2 Abhinav
3 Madhu
4 Aman
5 Shashank
6 Praful
Merge
Select tables and matching columns to create a merged table.
Sheet1
First Name | Second Name | Age | City | State | Region
Ankur | Singh | 29 | Mumbai | Maharashtra | West
Abhinav | Shukla | 30 | Bangalore | Karnataka | South
Madhu | Verma | 36 | Gangtok | Sikkim | East
Aman | Jaiswal | 18 | Jaipur | Rajasthan | West
Shashank | Singh | 26 | Gurugram | Haryana | North
Sheet2
First Name | Second Name | Age | City | State | Region
Ankur | Singh | 29 | Mumbai | Maharashtra | West
Abhinav | Shukla | 30 | Bangalore | Karnataka | South
Shashank | Singh | 26 | Gurugram | Haryana | North
Praful | Tripathi | 42 | Chennai | Tamil Nadu | South
Join Kind
Left Outer (all from first, matching from second)
Left Outer (all from first, matching from second)
Right Outer (all from second, matching from first)
Full Outer (all rows from both)
Inner (only matching rows)
Left Anti (rows only in first)
Right Anti (rows only in second)
OK
Cancel
Query Settings
PROPERTIES
Name
Sheet1
All Properties
APPLIED STEPS
Source
Navigation
Promoted Headers
Changed Type
6 COLUMNS, 6 ROWS
Column profiling based on top 1000 rows
PREVIEW DOWNLOADED AT 12:40 PM
Type here to search
30°C Sunny
ENG IN
12:57 PM
2/17/2023


PB1 - Power Query Editor
Merge
Select tables and matching columns to create a merged table.
Sheet1
First Name | Second Name | Age | City | State | Region
Ankur | Singh | 29 | Mumbai | Maharashtra | West
Abhinav | Shukla | 30 | Bangalore | Karnataka | South
Madhu | Verma | 36 | Gangtok | Sikkim | East
Aman | Jaiswal | 18 | Jaipur | Rajasthan | West
Shashank | Singh | 26 | Gurugram | Haryana | North
Sheet2
First Name | Second Name | Age | City | State | Region
Ankur | Singh | 29 | Mumbai | Maharashtra | West
Abhinav | Shukla | 30 | Bangalore | Karnataka | South
Shashank | Singh | 26 | Gurugram | Haryana | North
Praful | Tripathi | 42 | Chennai | Tamil Nadu | South
Join Kind
Left Anti (rows only in first)
Use fuzzy matching to perform the merge
Fuzzy matching options
The selection excludes 4 of 6 rows from the first table.
OK
Cancel
Queries [2]
Sheet2
Sheet1
Query Settings
PROPERTIES
Name
Sheet1
All Properties
APPLIED STEPS
Source
Navigation
Promoted Headers
Changed Type
6 COLUMNS, 6 ROWS
Column profiling based on top 1000 rows
PREVIEW DOWNLOADED AT 12:40 PM
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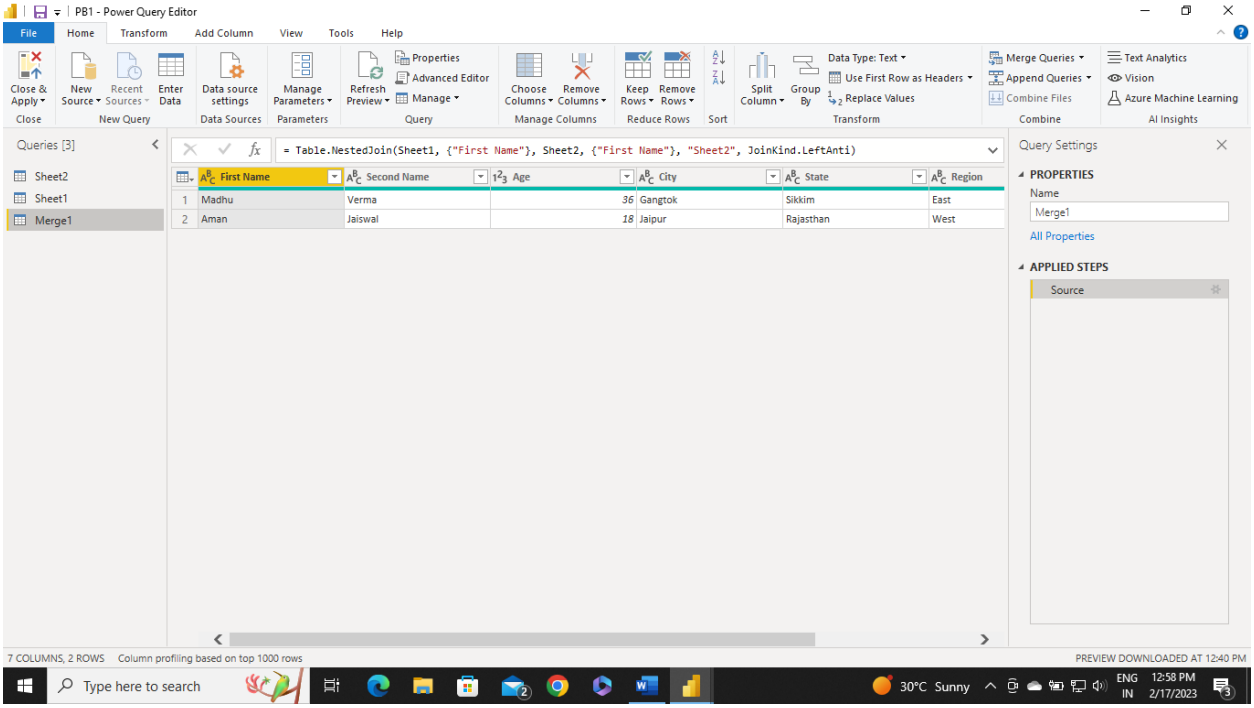
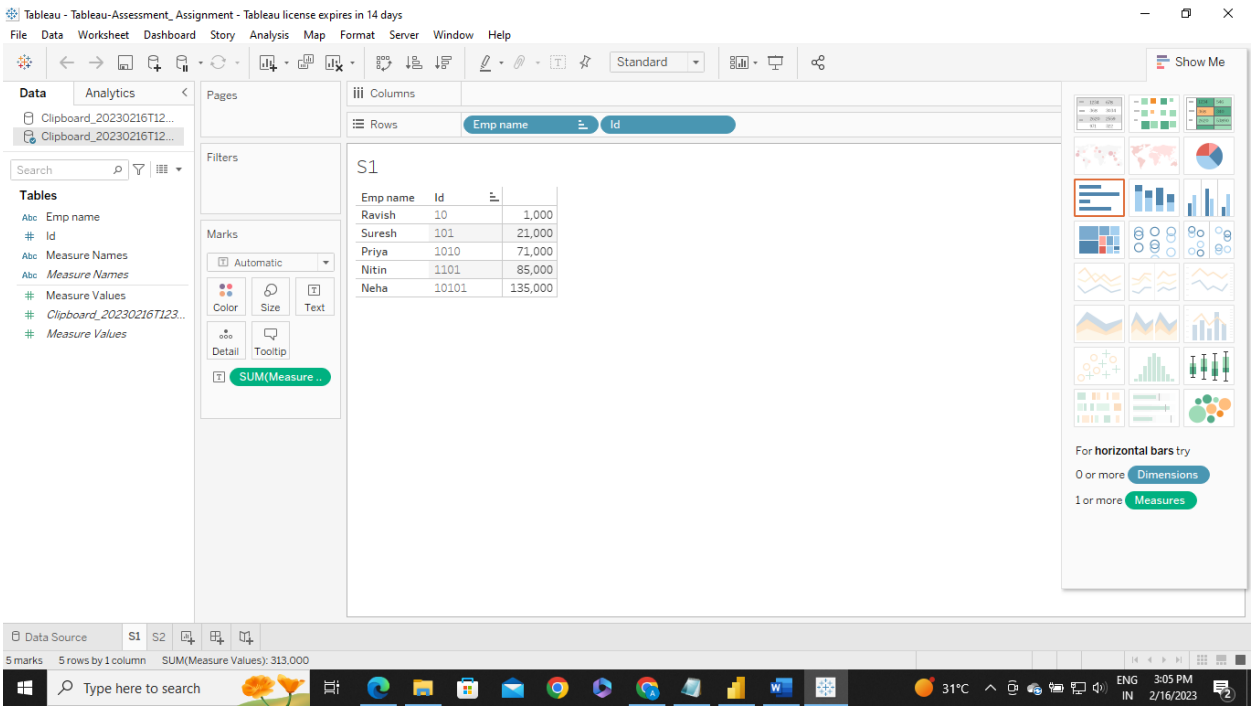
30°C Sunny
ENG IN
12:58 PM
2/17/2023


PB1 - Power Query Editor
= Table.NestedJoin(Sheet1, {"First Name"}, Sheet2, {"First Name"}, "Sheet2", JoinKind.LeftAnti)
First Name | Second Name | Age | City | State | Region
1 Madhu | Verma | 36 | Gangtok | Sikkim | East
2 Aman | Jaiswal | 18 | Jaipur | Rajasthan | West
Queries [3]
Sheet2
Sheet1
Merge1
Query Settings
PROPERTIES
Name
Merge1
All Properties
APPLIED STEPS
Source
7 COLUMNS, 2 ROWS
Column profiling based on top 1000 rows
PREVIEW DOWNLOADED AT 12:40 PM
Type here to search
30°C Sunny
ENG IN
12:58 PM
2/17/2023

Topic: Tableau

3. **To achieve this in Tableau Arun should do the following:**

a. Import or open the given CSV file in Tableau. Create duplicate sheet with the same to be secure with data (Original).
b. Select Id column and then right click.
c. Select format and then under Default heading find Numbers field.
d. Click on the drop-down menu to select custom number format.
e. In the right-hand side under the format there is a text box given.
f. Write '0000000' 7 zeros in it.
g. Click anywhere on the sheet (Blank Spaces).
h. Click on the cross sign of Format Id pane (If needed). He will get desired result.



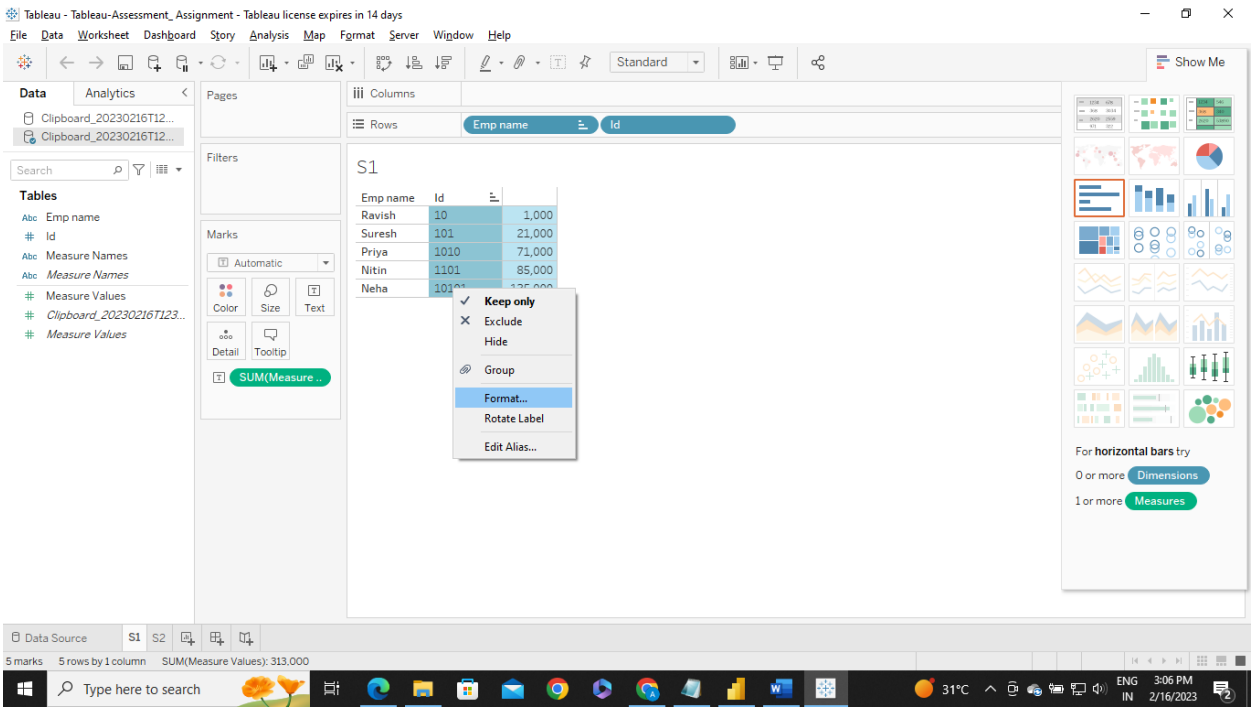


Tableau - Tableau-Assessment_ Assignment - Tableau license expires in 14 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Data
Analytics
Clipboard_20230216T12...
Search
Tables
Abc Emp name
Id
Abc Measure Names
Abc Measure Names
Measure Values
Clipboard_20230216T123...
Measure Values
Pages
Filters
Marks
Automatic
Color
Size
Text
Detail
Tooltip
SUM(Measure ..
Columns
Rows
Emp name
Id
S1
Emp name Id
Ravish 10 1,000
Suresh 101 21,000
Priya 1010 71,000
Nitin 1101 85,000
Neha
Keep only
Exclude
Hide
Group
Format...
Rotate Label
Edit Alias...
For horizontal bars try
0 or more Dimensions
1 or more Measures
Data Source
S1
S2
5 marks
5 rows by 1 column
SUM(Measure Values): 313,000
Type here to search
31°C
ENG
IN
3:06 PM
2/16/2023

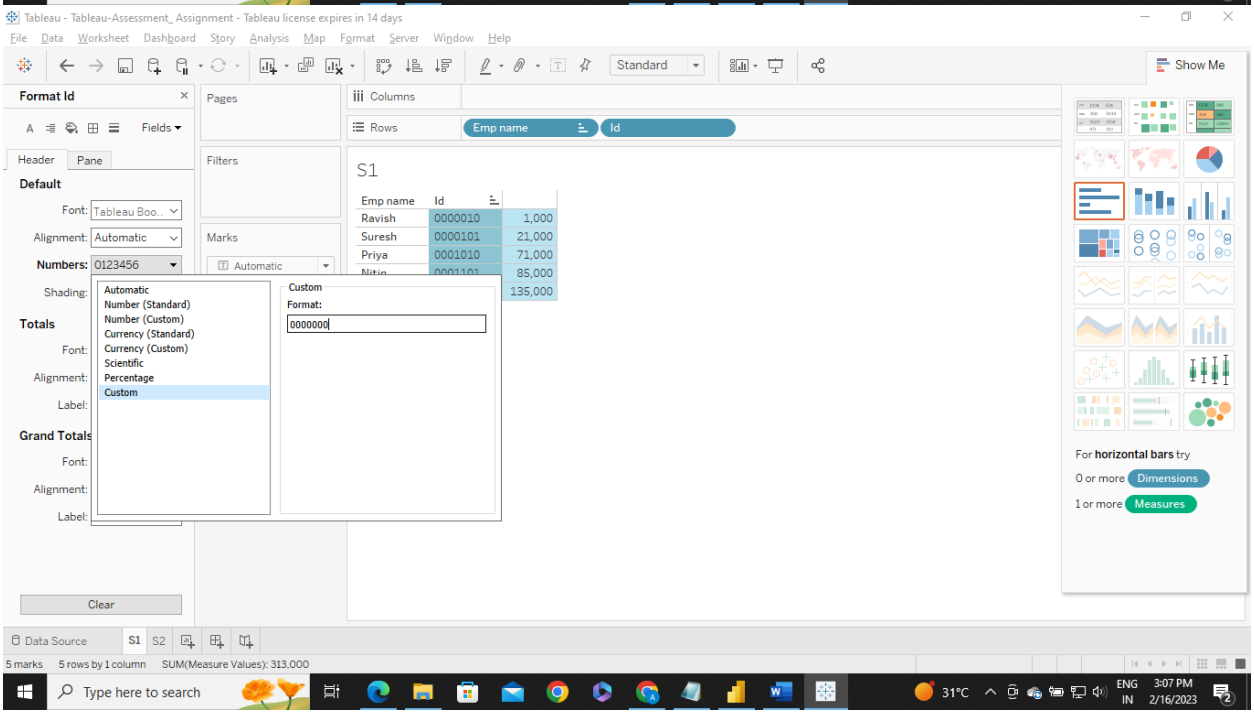


Tableau - Tableau-Assessment_ Assignment - Tableau license expires in 14 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Format Id
Fields
Header
Pane
Default
Font: Tableau Boo...
Alignment: Automatic
Numbers: 0123456
Shading:
Totals
Font:
Alignment:
Label:
Grand Totals
Font:
Alignment:
Label:
Automatic
Number (Standard)
Number (Custom)
Currency (Standard)
Currency (Custom)
Scientific
Percentage
Custom
Custom
Format:
0000000
Clear
Pages
Filters
Marks
Automatic
Columns
Rows
Emp name
Id
S1
Emp name Id
Ravish 0000010 1,000
Suresh 0000101 21,000
Priya 0001010 71,000
85,000
135,000
For horizontal bars try
0 or more Dimensions
1 or more Measures
Data Source
S1
S2
5 marks
5 rows by 1 column
SUM(Measure Values): 313,000
Type here to search
31°C
ENG
IN
3:07 PM
2/16/2023

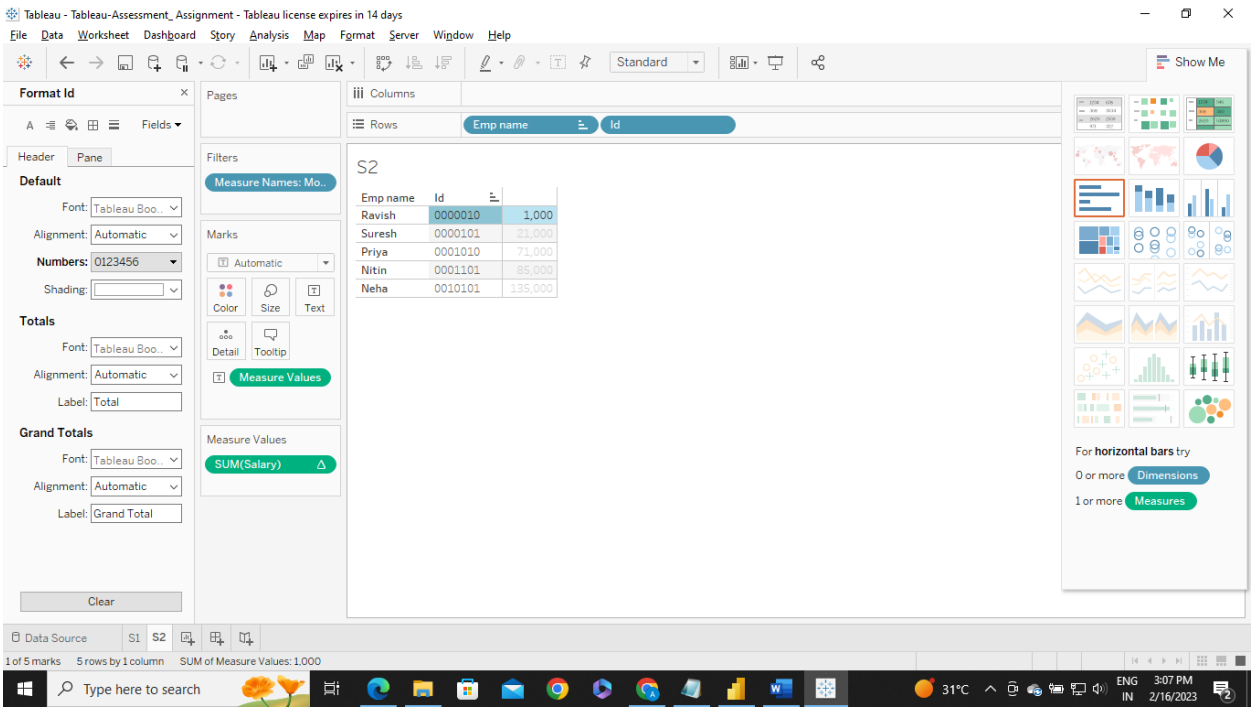
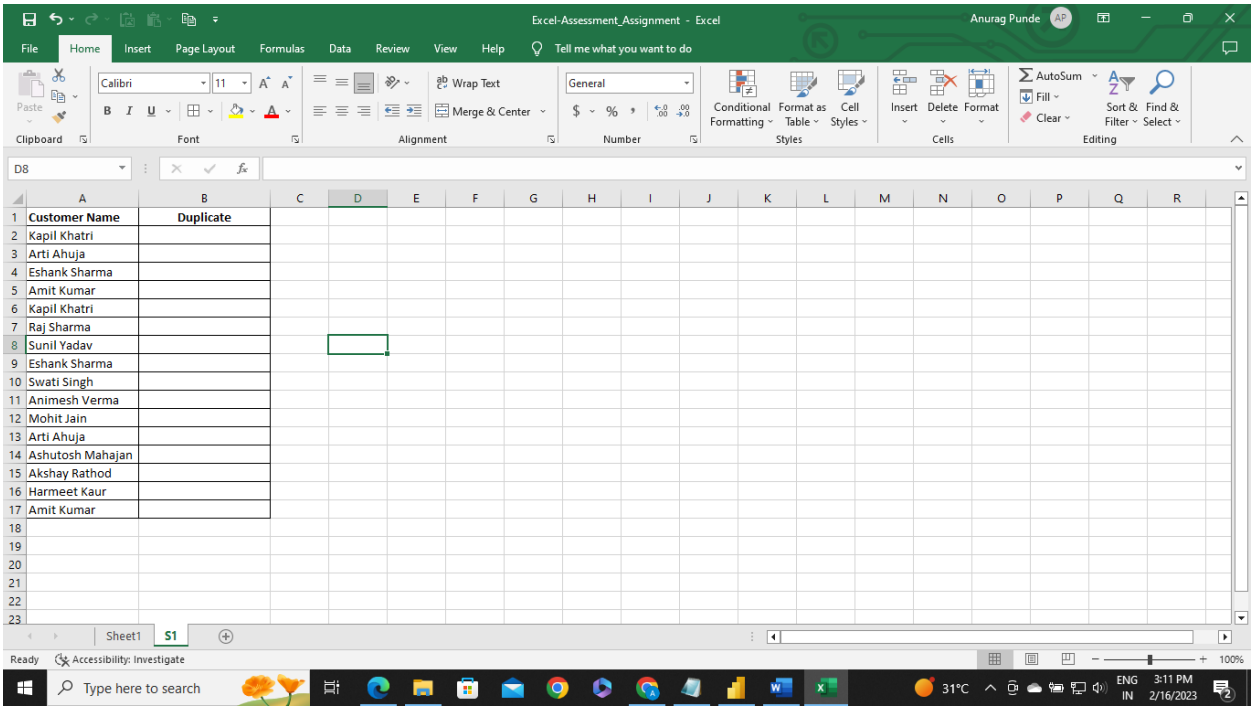


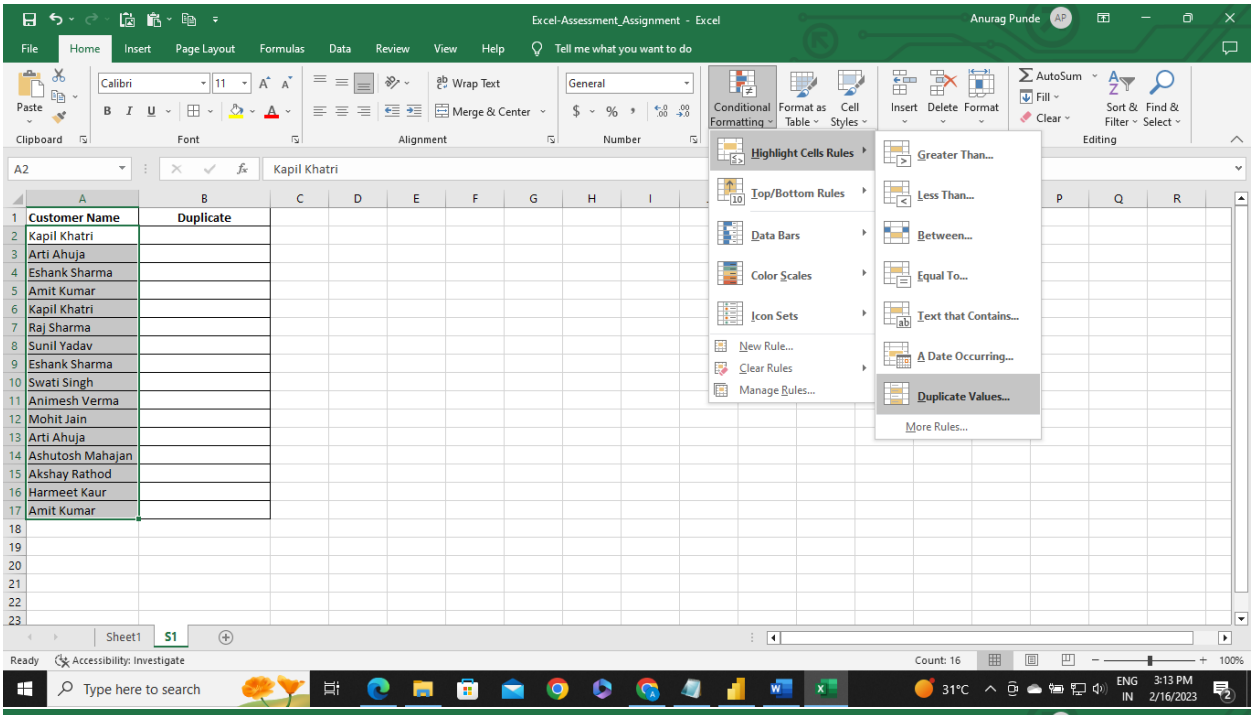
Tableau - Tableau-Assessment_ Assignment - Tableau license expires in 14 days
File Data Worksheet Dashboard Story Analysis Map Format Server Window Help
Standard
Show Me
Format Id
Fields
Header Pane
Default
Font: Tableau Boo...
Alignment: Automatic
Numbers: 0123456
Shading:
Totals
Font: Tableau Boo...
Alignment: Automatic
Label: Total
Grand Totals
Font: Tableau Boo...
Alignment: Automatic
Label: Grand Total
Clear
Pages
Filters
Measure Names: Mo..
Marks
Automatic
Color
Size
Text
Detail
Tooltip
Measure Values
Measure Values
SUM(Salary)
Columns
Rows
Emp name
Id
S2
Emp name
Id
Ravish 0000010 1,000
Suresh 0000101 21,000
Priya 0001010 71,000
Nitin 0001101 85,000
Neha 0010101 135,000
For horizontal bars try
0 or more Dimensions
1 or more Measures
Data Source
S1
S2
1 of 5 marks
5 rows by 1 column
SUM of Measure Values: 1,000
Type here to search
31°C
ENG
IN
3:07 PM
2/16/2023

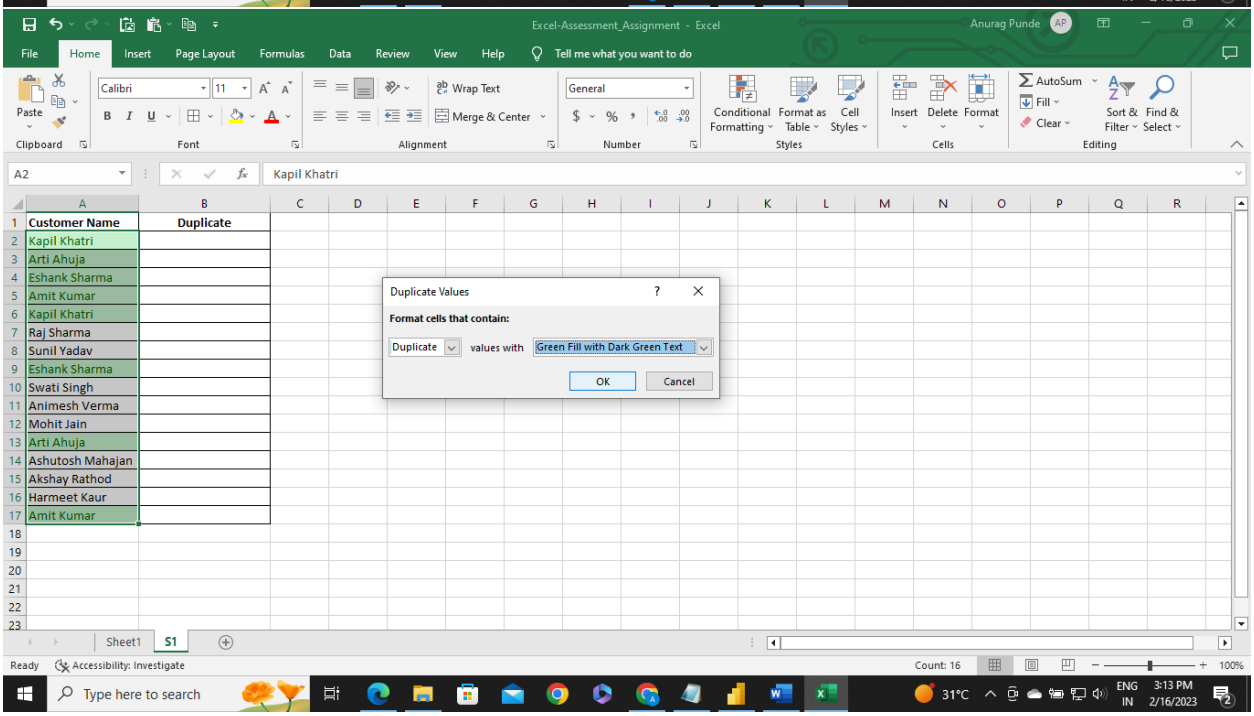
Topic: Excel

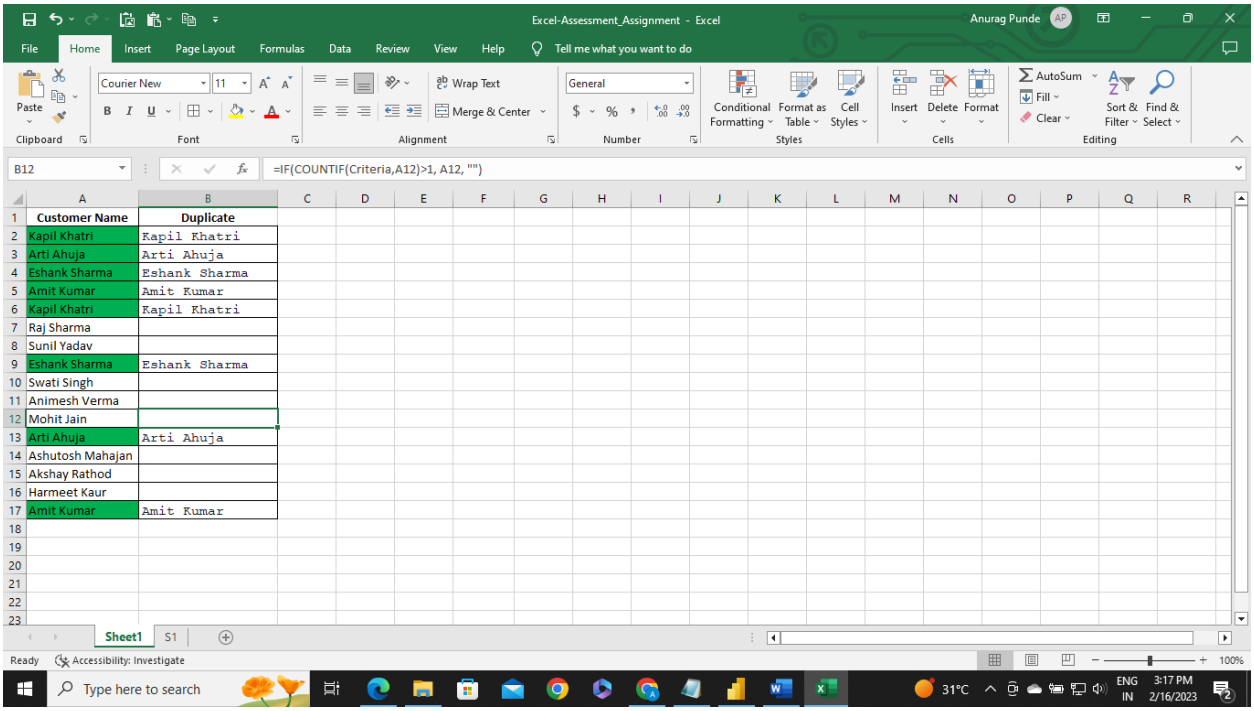
4. To solve this question do the following:

a. Create a new column name Duplicate.
b. Select first original column and click conditional formatting.
c. Click Highlight cells rules and then select Duplicate values.
d. In duplicate tab change the color if needed and click OK. your duplicate data will be highlighted.
e. Now in the new Duplicate column select B2 first blank column from where you want to populate your data.
f. Now apply the following formula:
'=IF(COUNTIF(Criteria,A2)>1, A2, "")' and press Enter.
g. Drag the formula for all the remaining cells.




Excel-Assessment_Assignment - Excel
Anurag Punde
File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do
Conditional Formatting
Format as Table
Cell Styles
Highlight Cells Rules
Top/Bottom Rules
Data Bars
Color Scales
Icon Sets
New Rule...
Clear Rules
Manage Rules...
Greater Than...
Less Than...
Between...
Equal To...
Text that Contains...
A Date Occurring...
Duplicate Values...
More Rules...
A2
Kapil Khatri
Customer Name
Duplicate
Kapil Khatri
Arti Ahuja
Eshank Sharma
Amit Kumar
Kapil Khatri
Raj Sharma
Sunil Yadav
Eshank Sharma
Swati Singh
Animesh Verma
Mohit Jain
Arti Ahuja
Ashutosh Mahajan
Akshay Rathod
Harmeet Kaur
Amit Kumar
Sheet1
S1
Ready
Accessibility: Investigate
Count: 16
100%
Type here to search
31°C
ENG IN
3:13 PM 2/16/2023


Excel-Assessment_Assignment - Excel
Anurag Punde
File Home Insert Page Layout Formulas Data Review View Help Tell me what you want to do
A2
Kapil Khatri
Customer Name
Duplicate
Kapil Khatri
Arti Ahuja
Eshank Sharma
Amit Kumar
Kapil Khatri
Raj Sharma
Sunil Yadav
Eshank Sharma
Swati Singh
Animesh Verma
Mohit Jain
Arti Ahuja
Ashutosh Mahajan
Akshay Rathod
Harmeet Kaur
Amit Kumar
Duplicate Values
Format cells that contain:
Duplicate
values with
Green Fill with Dark Green Text
OK
Cancel
Sheet1
S1
Ready
Accessibility: Investigate
Count: 16
100%
Type here to search
31°C
ENG IN
3:13 PM 2/16/2023



	A	B
1	**Customer Name**	**Duplicate**
2	Kapil Khatri	Kapil Khatri
3	Arti Ahuja	Arti Ahuja
4	Eshank Sharma	Eshank Sharma
5	Amit Kumar	Amit Kumar
6	Kapil Khatri	Kapil Khatri
7	Raj Sharma	
8	Sunil Yadav	
9	Eshank Sharma	Eshank Sharma
10	Swati Singh	
11	Animesh Verma	
12	Mohit Jain	
13	Arti Ahuja	Arti Ahuja
14	Ashutosh Mahajan	
15	Akshay Rathod	
16	Harmeet Kaur	
17	Amit Kumar	Amit Kumar
18		
19		
20		
21		
22		
23		