# **Unit 2: Electronic Spreadsheet (Advanced)**

# **Assignment 1**

Objective: Applying Data Consolidation in OO Calc.

#### Task:

- Create a new file in spreadsheet software and enter data for 10 salesmen. Add two worksheets in the file and modify the data for all 3 quarters.
- Rename all worksheets like sheet1 2018, sheet2 2019 and sheet3 2020.
- Now add one more worksheet at the end and rename as consolidated sheet.
- Now type the serial no and names as displayed, use sum function to add data for 2018, 2019 and 2020 in respective cells using consolidation.

	A	В	С	D	E
1	S.No	Name	Quarter 1	Quarter 2	Quarter 3
2	1	Anil	751	789	760
3	2	Amit	834	755	835
4	3	Ankush	831	825	811
5	4	Bhavin	725	803	785
6	5	Bhavya	754	794	710
7	6	Bharti	700	812	703
8	7	Chandani	754	734	698
9	8	Dhara	767	776	705
10	9	Dhaval	772	802	847
11	10	Gaurang	791	822	805
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
4	2018	2019 (2020)	Consolidated	<	
Shee	et 4 / 4			Default	

### **Solution:**

- · Create a new spreadsheet in OO Calc.
- Enter the data for Sheet 1 and rename sheet as 2018. To rename the worksheet right click on sheet tab then type the desired name. Press enter key to accept the name.

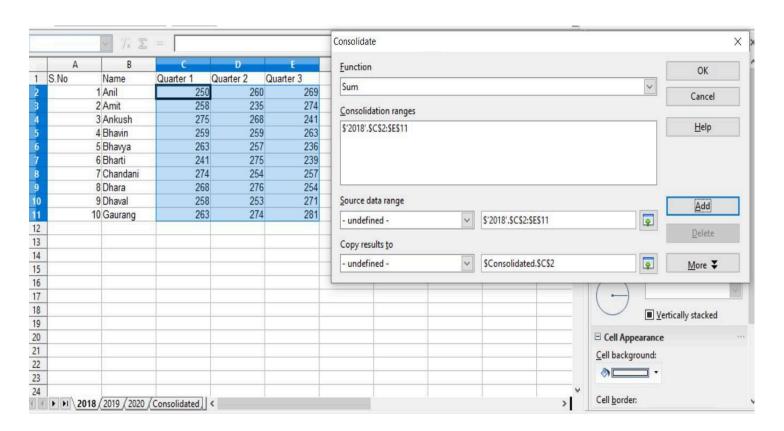
1	A	В	C	D	E
1	S.No	Name	Quarter 1	Quarter 2	Quarter 3
2	1	Anil	250	260	269
3	2	Amit	258		274
4	3	Ankush	275	268	241
5	4	Bhavin	259	259	263
6	5	Bhavya	263	257	236
7	6	Bharti	241	275	239
8	7	Chandani	274	254	257
9	8	Dhara	268	276	254
10	9	Dhaval	258	253	271
11	10	Gaurang	263	274	281
12					
13					
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19					
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21					
22					
23					
24					

- Follow the same instructions for next two worksheets.
  - Add one more worksheet to display the consolidation result and rename as Consolidated.

5. Select the cell ranges where results needs to appear.

	Α	В	С	D	E
1	S.No	Name	Quarter 1	Quarter 2	Quarter 3
2	1	Anil			
3	2	Amit			
4	3	Ankush			
5	4	Bhavin			
6	5	Bhavya			
7	6	Bharti			
8	7	Chandani			
9	8	Dhara			
10	9	Dhaval			
11	10	Gaurang			

- 6. Click on Data ---> Consolidate option. A consolidate dialog box will appear.
- 7. Select your desired function (Sum here) and add references to the cells by selecting ranges.
- 8. Move the cursor on 2018 work sheet and select the range. Click on Add button.

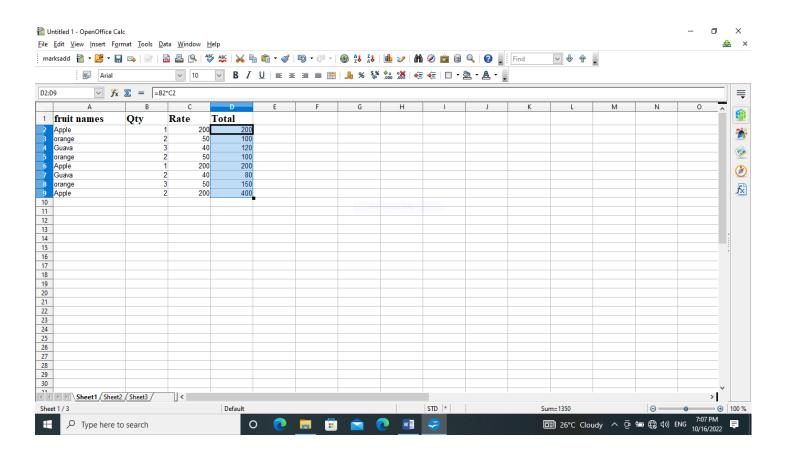


- 9. Repeat the same for 2019 and 2020 worksheet respectively.
- 10. Click on OK button.

# **Assignment 2**

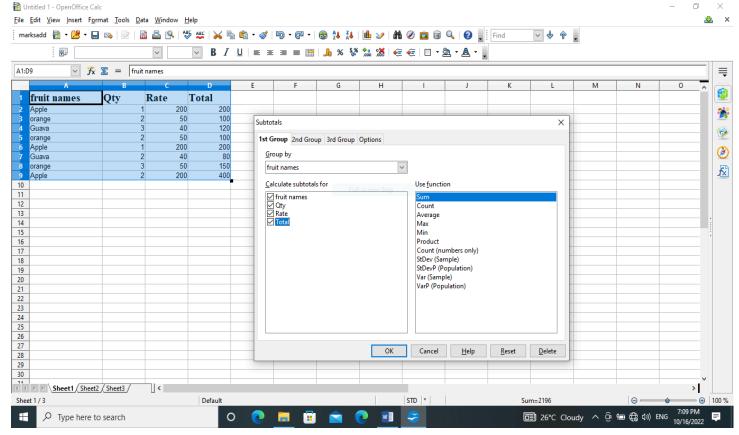
Objective: Applying subtotal in OO Calc.

Task: Prepare a worksheet as following

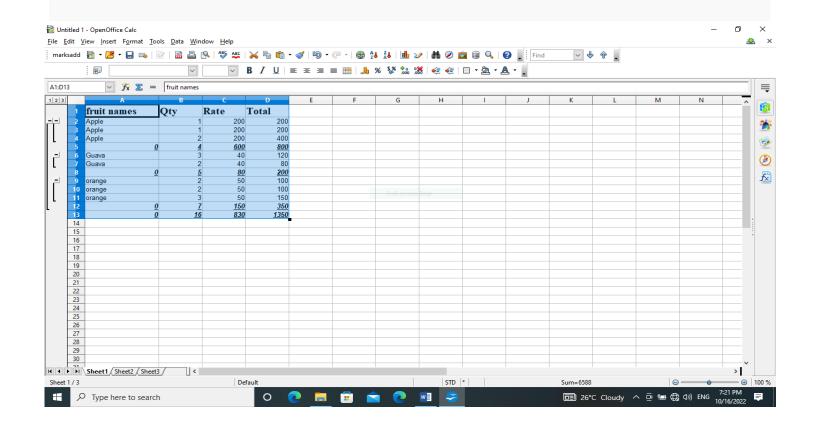


#### Solution:

- · Open spreadsheet software and enter the data as following:
- · Select the data. Needs to be grouped using subtotal



Output



# Learning Outcome - Share and review a spreadsheet

# **Assignment 3**

Objective: Setting up a spreadsheet for sharing.

**Task:** Create a new file in spreadsheet software and enable sharing.

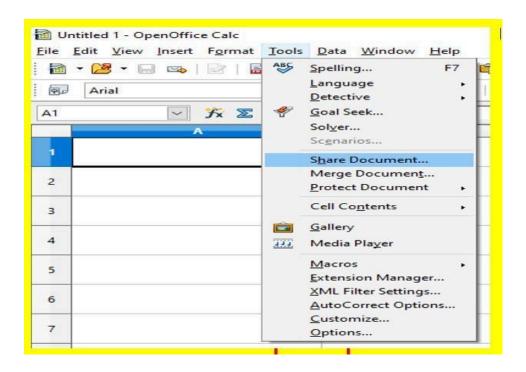
1. Create a new worksheet, enter data as you wish.

- 2. Save your worksheet with your desired name.
- 3. Enable sharing for your worksheet.

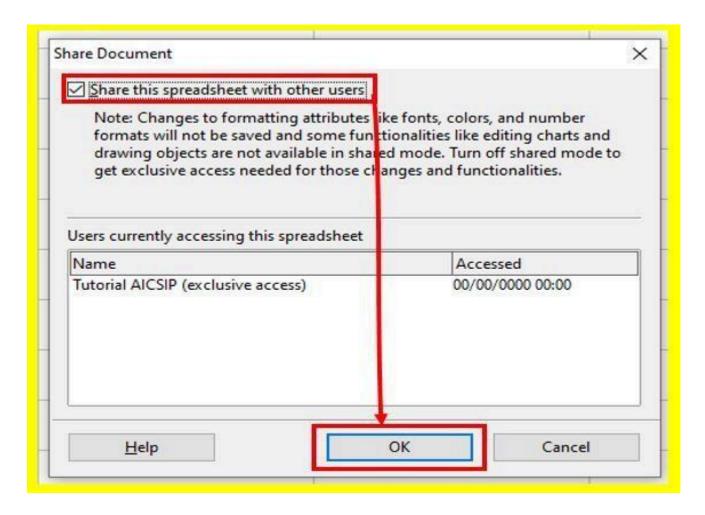
#### **Solution**

- 1. Create a new worksheet and enter data.
- 2. Click on File \( \Bar{\pi} \) Save and Use proper name for the worksheet.
- 3. Click on Tools 

  Share Document.



4. The Share Document dialog box will appear. Click on Share this spreadsheet with other users.



5. Click OK button.

#### **Assignment 4**

Objective: Goal seek Application

**Task:** A student is planning her goals about the marks she should attain in the forthcoming examinations in order to achieve a distinction (75%). Assuming that the examination of each subject is for 100 marks, her marks of PT 1 and Term 1 are given as under.

	English	Maths	Science
PT 1	72	63	54
Term 1	70	69	80

Find out how many marks should she obtain in term 2 to secure distinction.

#### **Solution:**

	A	В	C	D	E
1		English	Maths	Science	%
2	PT 1	72	63	54	63
3	Term 1	70	69	80	73
4	Term 2	83	93	91	89
5		75	75	75	75

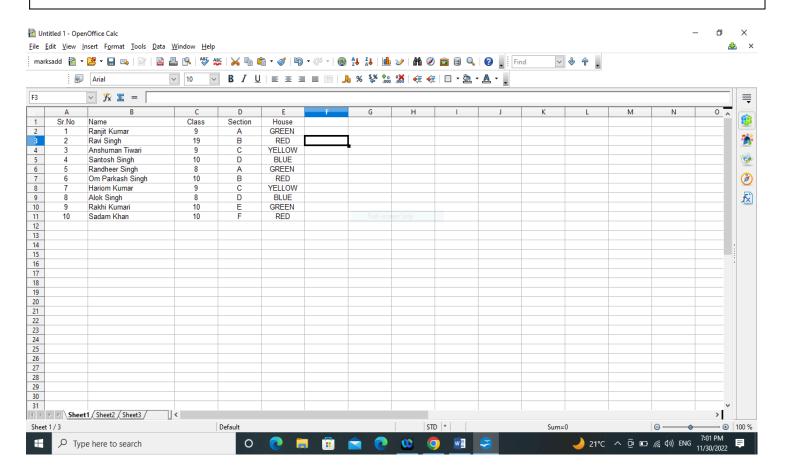
- 1. Enter data as given in the data itself.
- 2. Place the cursor to get the result for the marks of term 2.
- 3. Place the cursor in B5 and write average () formula.
- 4. Now click on Tools ☐ Goal Seek option.
- 5. Check the formula cell (it should be B5 only).
- 6. Now write the target value i.e. 75.
- 7. Select the cell B4 to see the value to adjust the marks.
- 8. Repeat the same steps Maths and Science as well.

# Learning Outcome – Create and use Macro in Spreadsheet

# **Assignment 5**

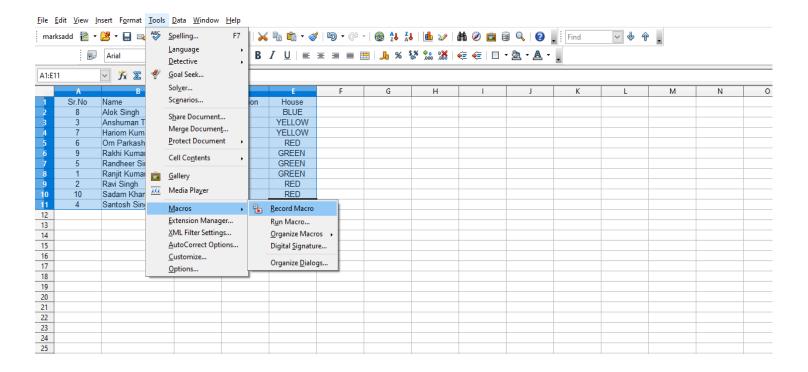
Objective: Create and use Macro in Spreadsheet

Task: Prepare a worksheet as following

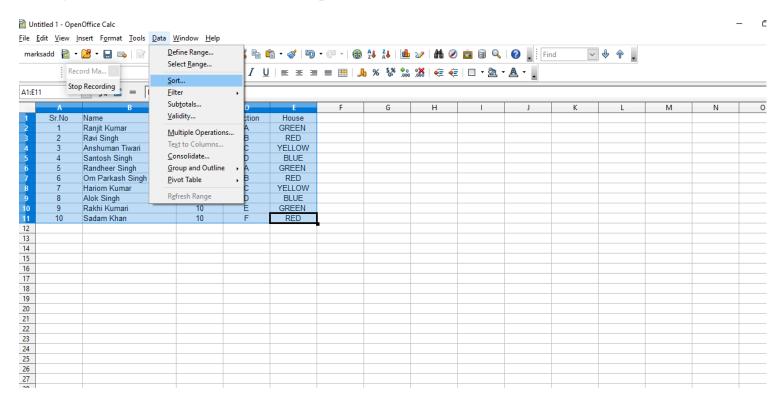


#### **Solution:**

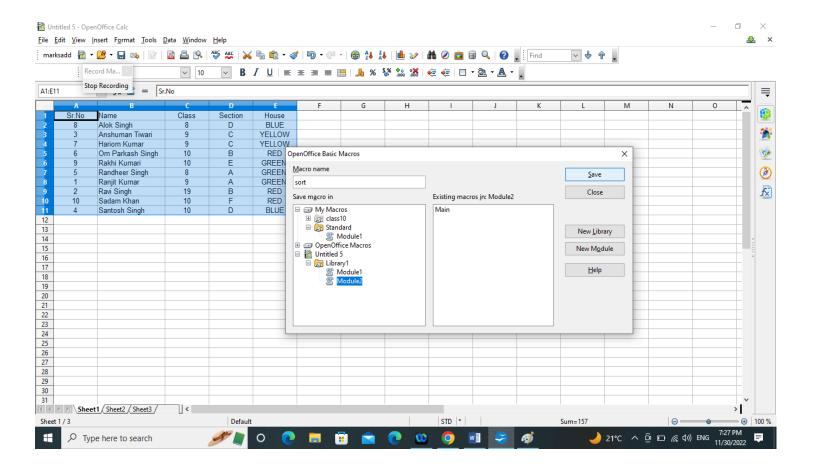
- 1. Open spreadsheet software and enter the data as following:
- 2. Select the data. Needs to be Record macro
- 3. Tool Macro Record Macro Stop Recording dialog box appears.



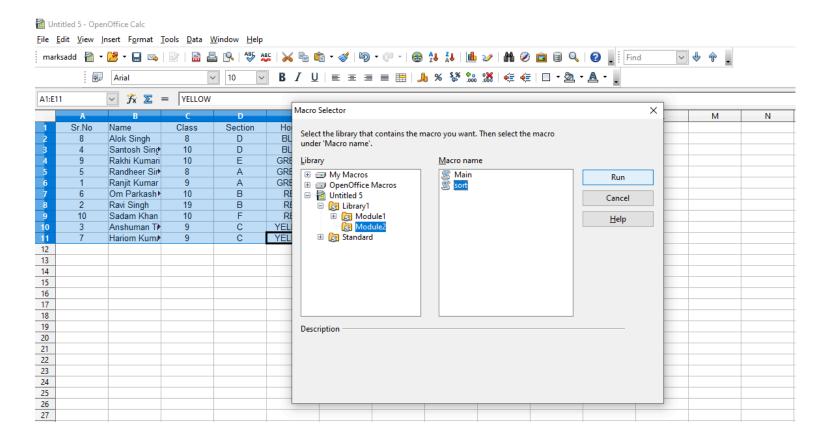
# Then go to sort data tab and select sort option



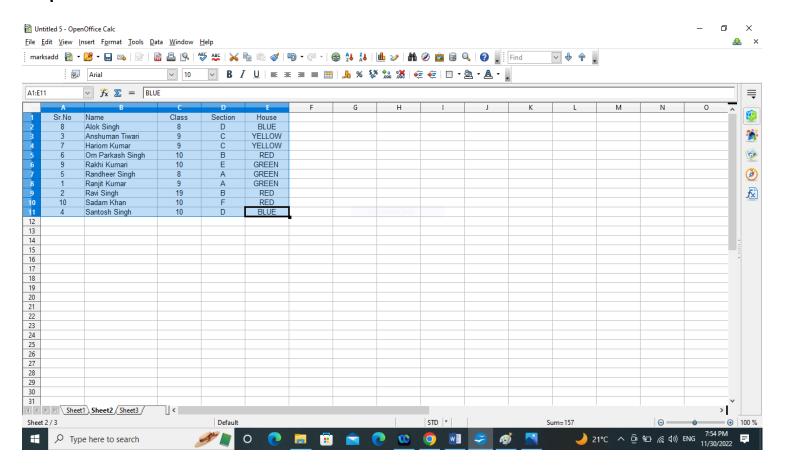
Stop recording->create new module ->create new library->save as sort



Go to Tool menu->Select macro->Run macro->library1->module2->sort->Run



#### **Output:**



# Unit 3

# **Database Management System**

# Learning Outcome – Create and edit tables using wizard

# **Assignment 1**

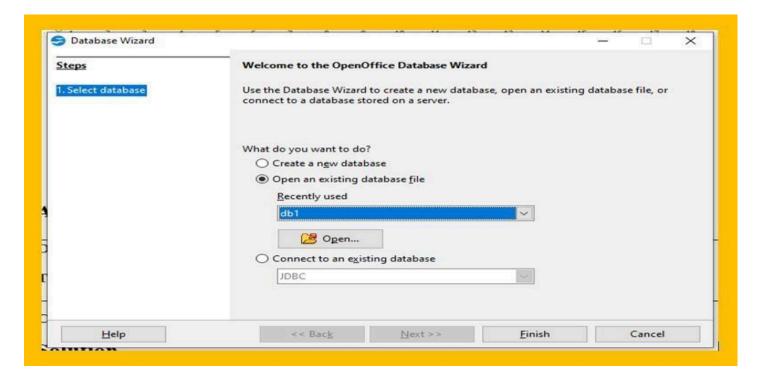
Objective: Steps to create a table using table wizard

Task: Create a table using wizard

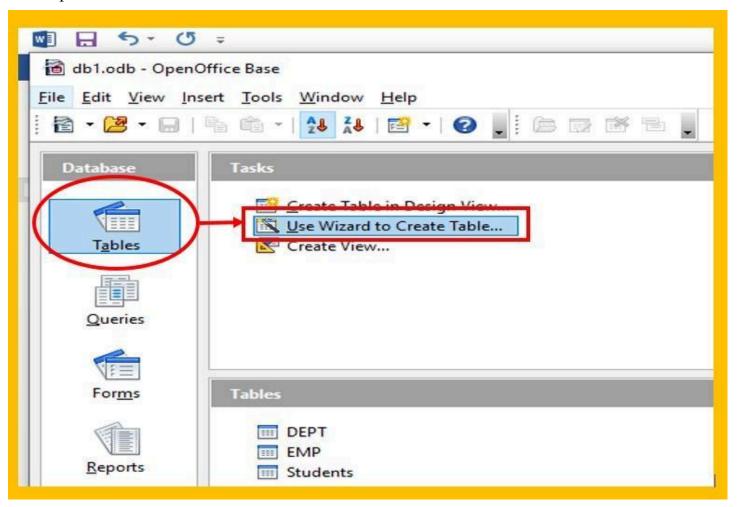
### Create any table in OO base using table wizard.

#### **Solution**

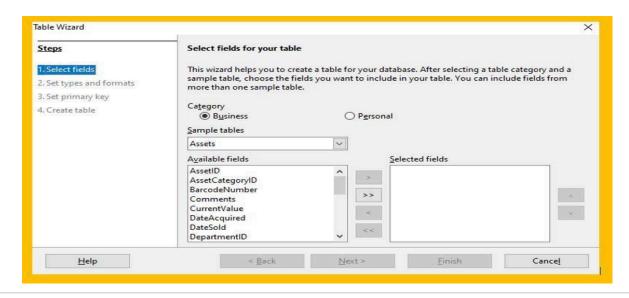
- 1. Click on Start □ All Programs □ Open Office 4.1.7 □ Open Office Base.
- 2. OO Base window will open with Database Wizard. Select or create the database to work upon it. I have selected existing database db1. Click on Finish button.



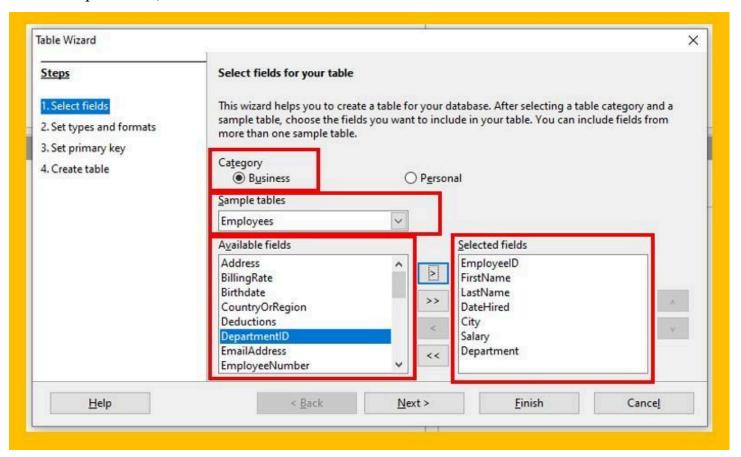
**3.** Now click on **Tables** button from Left pane and choose **Use Wizard to Create Table...** option from the tasks window.



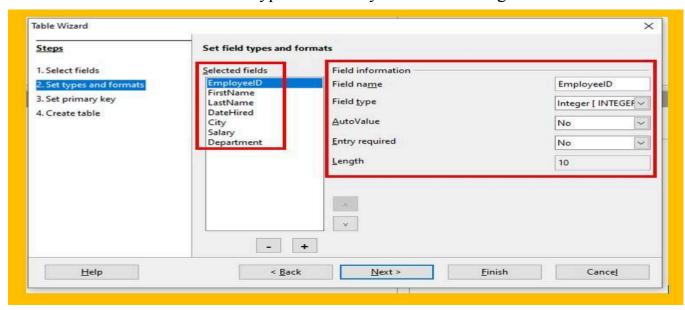
4. The Table Wizard will open. Follow wizard steps to create a table.



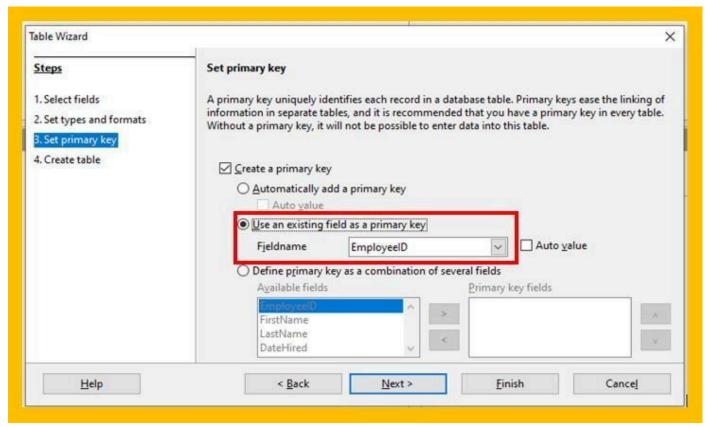
5. In first step of wizard select the Category either Business or Personal, Table from list of sample tables, and fields from available fields. Click on Finish button.



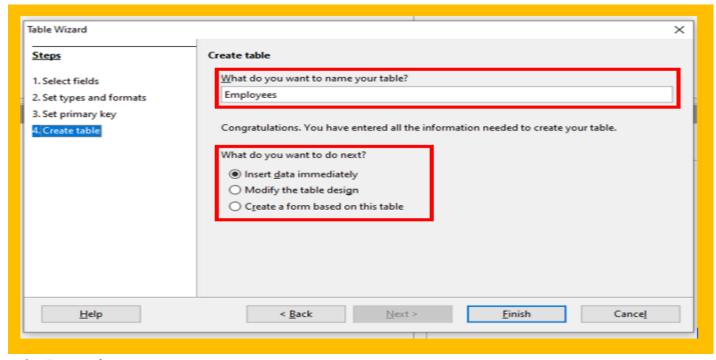
6. Click on Next and select field types and all if you want to change it. Click on Next.



7. Set a primary key for your table in this step. I have selected EmplyeeID as Primary key.



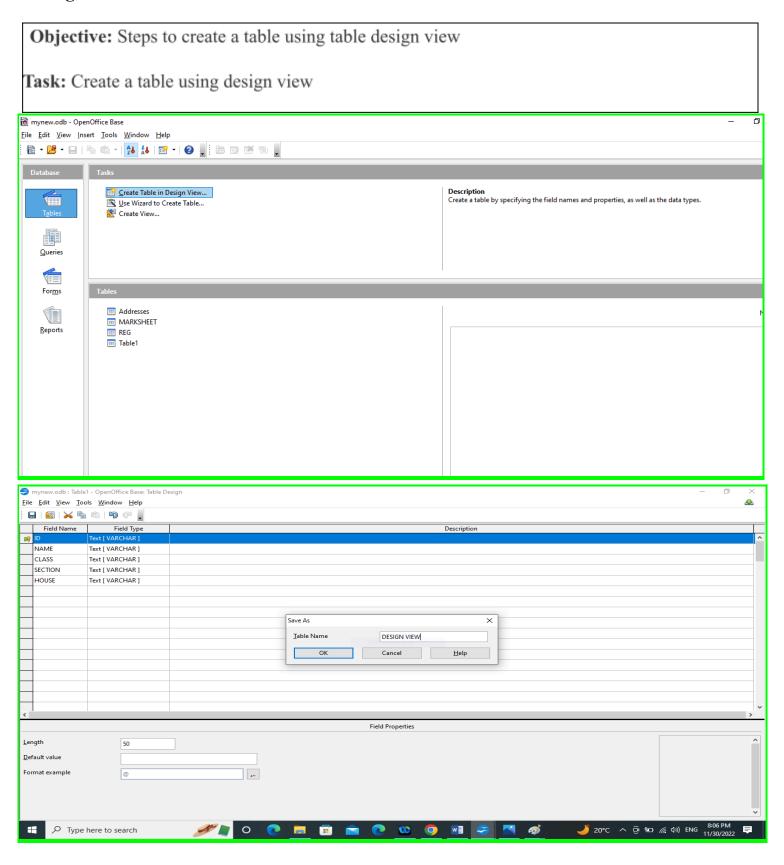
8. If you wish to change the table name then type new name for the table and click on Insert Data immediately, and click on Finish.



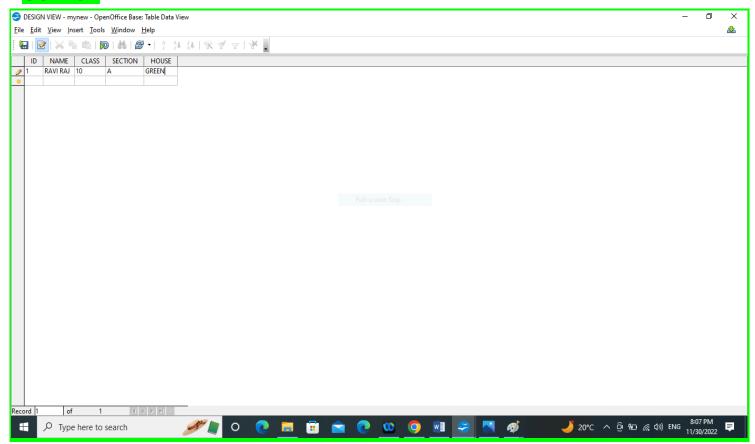
9. Insert data.

# Learning Outcome – Create and edit tables using Design view

### **Assignment 2**



# **OUTPUT**



# Learning Outcome - Retrieve data using query

# **Assignment 3**

Objective: Query creation using wizard

**Task:** Create table Marksheet (Using SQL Command )and perform the bellow given queries using wizard and design view.

Field Name	Data Type	Size
Stud_No	Integer	2
Name	Text	15
RollNo	Integer	3
Sub101	Decimal	3,2
Sub102	Decimal	3,2
Sub103	Decimal	3,2

In the Database file Add these Fields: (Total: Datatype- Number 3 digits, Percentage:

Datatype - Number 3 digits with 2 decimal places, Grade: Datatype- Char with 2 letters)

- Insert more 3 records in MARKSHEET using SQL mode.
- Display name, rollno, marks of 3 subjects, total and percentage using design view.

- Display the rollno, name and percentage whose percentage are more than 70 using design view.
- · Display all the record in ascending order of names using design view.

# Solution

### **Create table command**

create table marksheet(

Stud no tinyint primary key,

Name varchar(15),

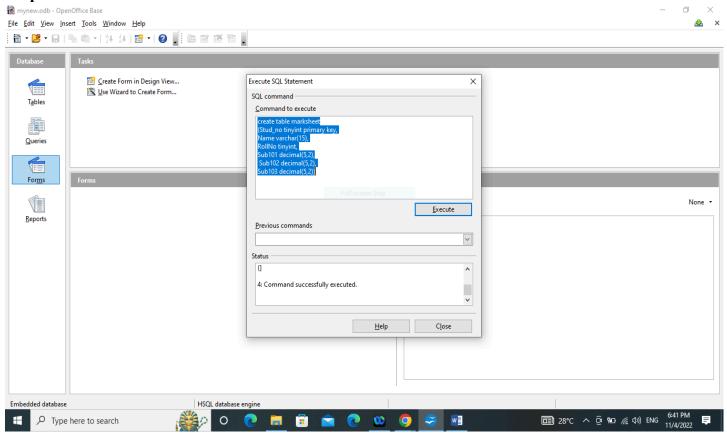
RollNo tinyint,

Sub101 decimal(5,2),

Sub102 decimal(5,2),

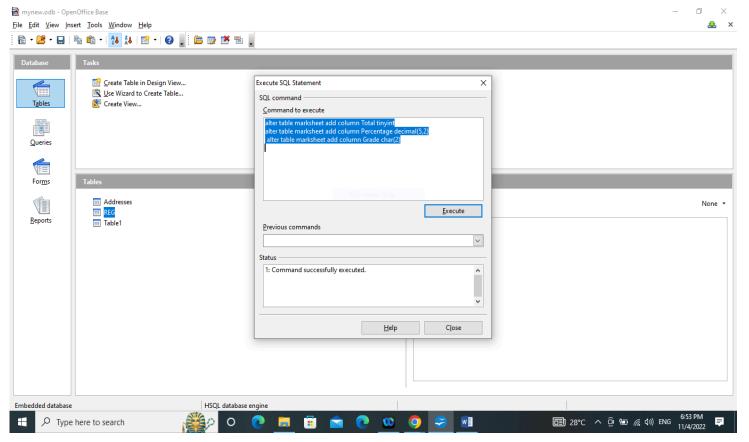
Sub103 decimal(5,2))

### **Output:**



### **Queries**

- 1. Add Columns
  - 1. Add column Total □ alter table marksheet add column Total tinyint
  - 2. Add column Percentage □ alter table marksheet add column Percentage decimal(5,2)
  - 3. Add column grade □ alter table marksheet add column Grade char(2)

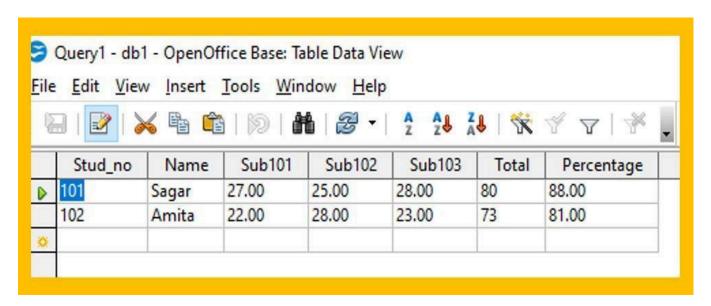


- 2. Insert records
  - 1. insert into marksheet values (101, 'Sagar', 105, 27, 25, 28, 80, 88, 'B1')
- 3. Steps to perform a query using design view
  - 1. Click Queries ☐ Create Query in Design View....
  - 2. The query design window will open.
  - 3. Select the marksheet table and click on Add button.
  - 4. Now select fields given in the question like name, rollno, marks, Sub101,

Sub102, Sub103, Total and Percentage.

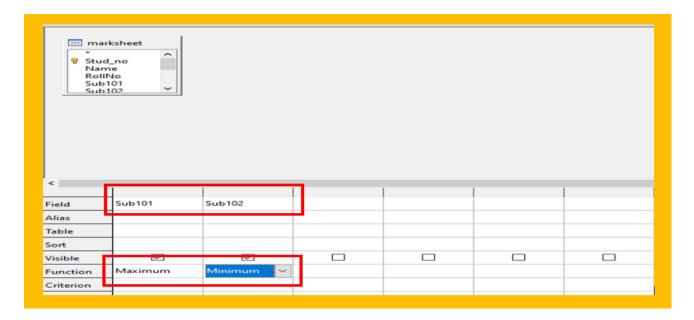
# 5. Save the query.

# Output

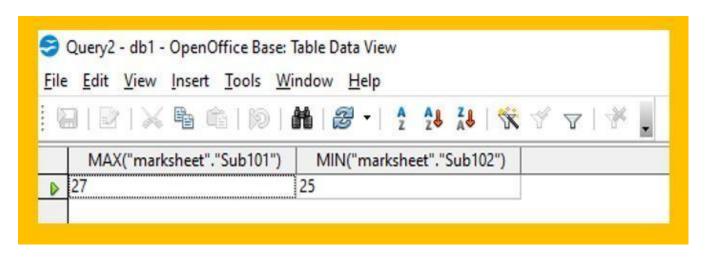


- 6. Display maximum marks and minimum marks for the fields given in the question, using design view.
  - 1. Click Queries 

    Create Query in Design View....
  - 2. The query design window will open.
  - 3. Select the marksheet table and click on Add button.
  - 4. Now select the field Sub101 and Sub102.
  - 5. Choose the function maximum under Sub101 and Minimum under Sub102.

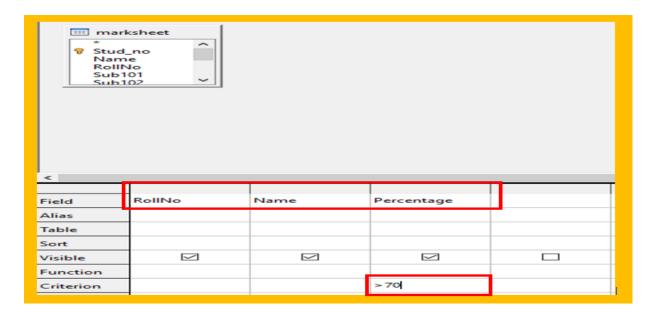


6. Save the query and check the result.



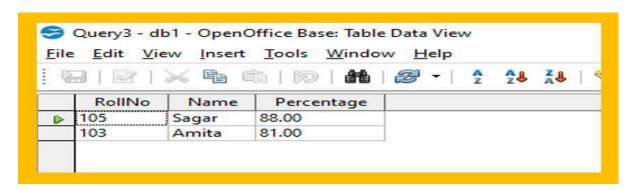
- 7. Display the rollno, name and percentage whose percentage are more than 70 using design view
  - 1. Click Queries 

    Create Query in Design View....
  - 2. The query design window will open.
  - 3. Select the marksheet table and click on Add button.
  - 4. Select columns given in the question i.e. Rollno, Name and Percentage.
  - 5. Type >70 in the front of criteria under the percentage field.



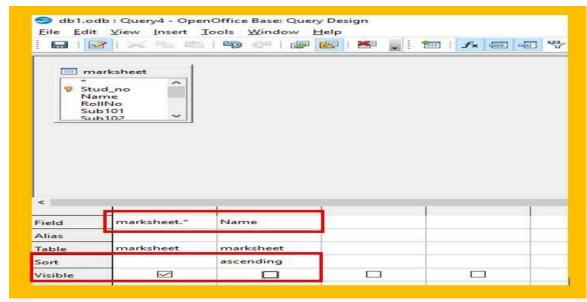
6. Save the query and check the result.

# Output



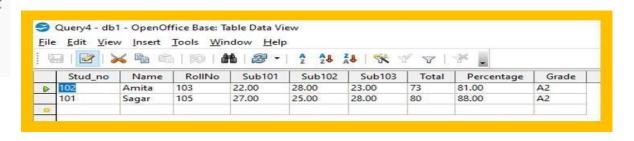
- 7. Display all the record in ascending order of names using design view.
  - 1. Click Queries 

    Create Query in Design View....
  - 2. The query design window will open.
  - 3. Select the marksheet table and click on Add button.
  - 4. Select markesheet.\* and name in the column list.
  - 5. Select sort □ ascending under name field.
  - 6. Now click on Visible checkbox to hide the name column in result.



7. Save the query and check the result.

# Output



# Learning Outcome - Create Forms and Reports using wizard

### **Assignment 4**

Objective: Creating form using wizard

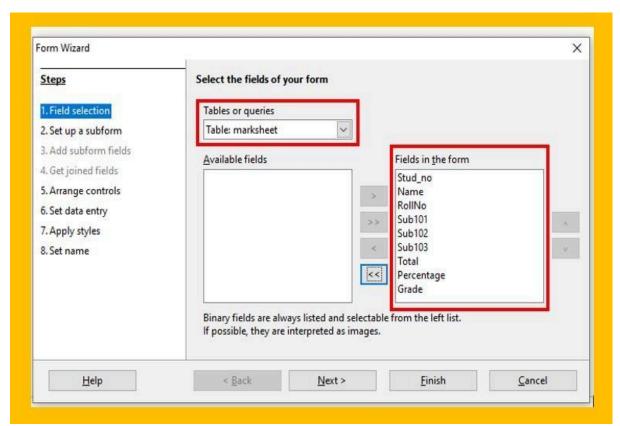
Task: Create table a form using wizard by selecting all the fields for the table - Marksheet

#### **Solution**

Steps to create a form using wizard

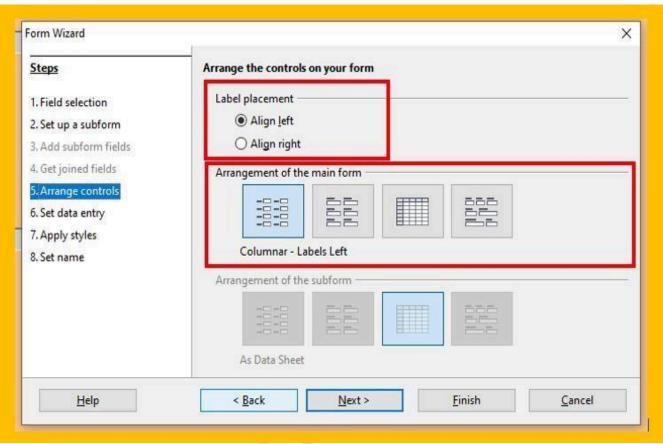
- 1. Click on Forms 

  Use Wizard to Create Form...
- 2. A Form Wizard appears.

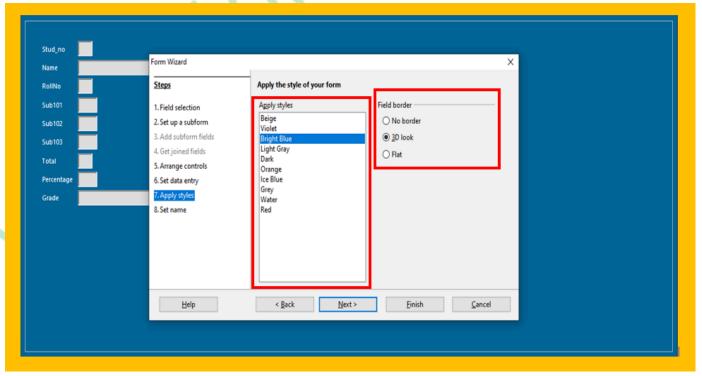


- 3. Select the table from Tables or Queries then add all the fields.
- 4. Click on Next button. Ignore step 3 and step 4.

5. Select the first option i.e. Columnar – Labels Left then click on the next button.

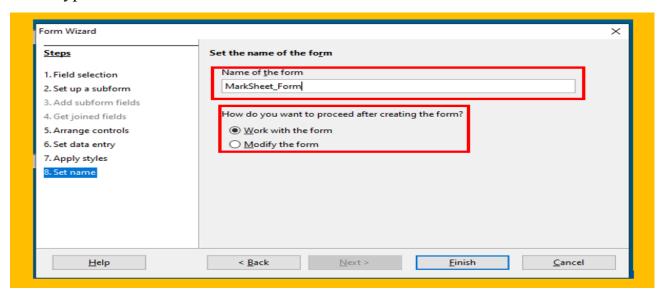


6. Now set data entry step will be there. Ignore this step and click on Next. Choose



the styles for the form interface and click on next.

7. Type new name for the form and click on work with the form. Click on Finish



### **Assignment 5**

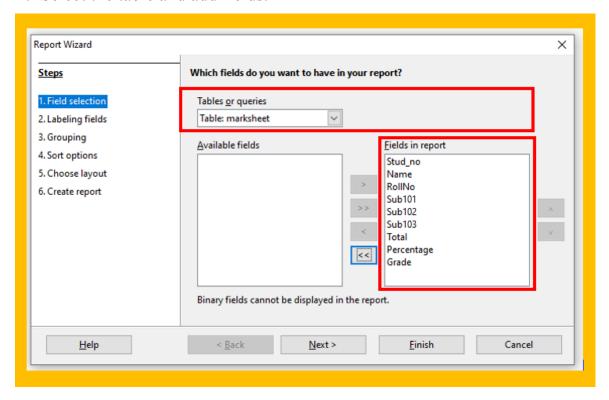
Objective: Creating report using wizard

Task: Create table a report using wizard by selecting all the fields for the table - Marksheet

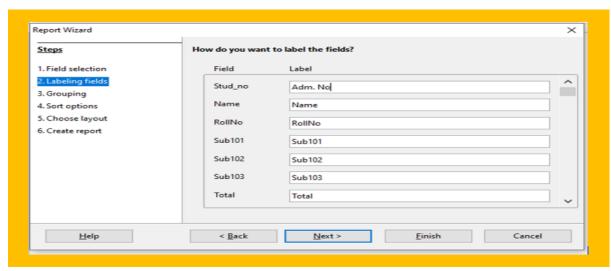
#### **Solution**

- 1. Click on Reports 

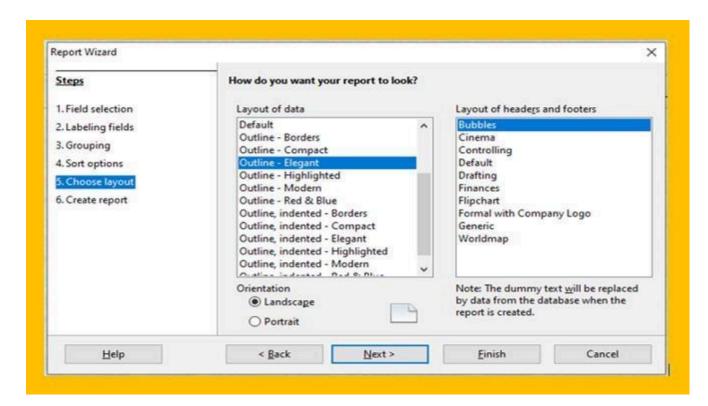
  Use Wizard to Create report. The report wizard will open in the new window.
- 2. Select the table and add fields.



3. Now change the label text that you want in the report. I have changed the label Stud no into Adm. No. Click on Next.



- 4. I have skipped groping and sorting options by click on Next button.
- 5. Now choose the layout. I have selected Outline-Elegant as Layout of Data, Landscape Orientation, and Bubbles Layout of Headers and Footers. Click on Next.





- 6. Now type the title of the report and select dynamic report  $\square$  Create report now option.
- 7. Now click on finish.

# Output

Author: Tutorial AICSIP Date: 1/25/21

Adm. No	Name	RollNo	Sub101	Sub102	Sub103	Total	Percent-	Grade
101	Sagar	105	27	25	28	80	88	A2
102	Amita	103	22	28	23	73	81	A2

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