

WorkShop4

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Instructions:

- The workshop can be completed in **group of four (recommended)**.
- All members should work together to complete the workshop and they will receive the same mark.
- This workshop is worth 2.5% of the total course grade and will be evaluated through your written submission.
- Please submit the submission file(s) through Blackboard.
- **Only one person must submit for the group and only the last submission will be marked.**

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Part One: Download Dataset

- Step1.** Download [Hospital Visits.xlsx](#) from blackboard.
- Step2.** Download [DepartmentGoals.xlsx](#) from blackboard.
- Step3.** Open Tableau Desktop, and then connect to Microsoft Excel file

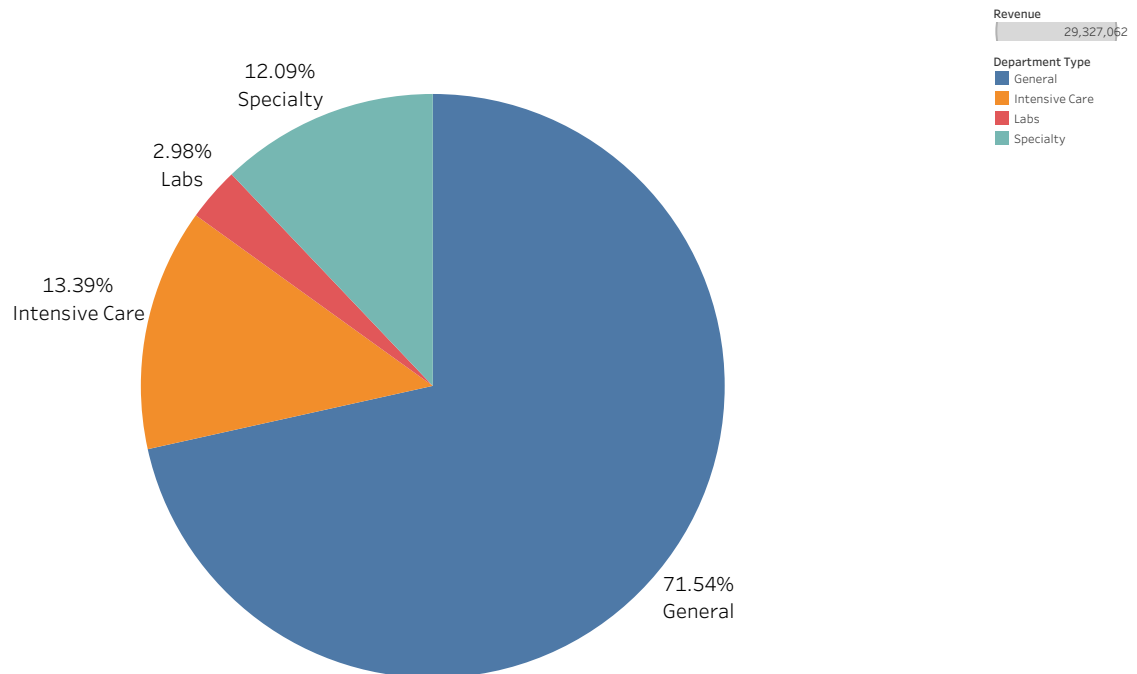
Part Two: Pie Chart

- Step1.** Create new worksheet and named it "[PieChart](#)".
- Step2.** Select both **Department Type** and **Revenue**, then from Show Me Card choose **pie chart**.
 - a. Note the Marks card.
- Step3.** Drag the dimension **Department Type** to Label in the Marks Card.
 - a. Do not forget to change the size from **Standard** to **Entire View**
- Step4.** Drag the measure **Revenue** to Label in the Marks Card. Then, right-click on the measure **Revenue** and select **Quick Table Calculation** and then **Percent of Total**.
- Step5.** Change title to "**Hospital Revenue Per Department Type**"
- Step6.** Add your group member name to the Title
 - a. Font size for First line in the title is 20 and type is Tableau Light
- Step7.** Change the size of Label to 15 and allow label to overlap
- Step8.** *Select Size and drag the slider to the Right. So, the size of pie chart increase*
- Step9.** Save your tableau file as [WS04.twbx](#). Keep the file open, you will be using this file for other parts

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Question 1. Copy and Paste the created **Pie Chart** here. Replace the figure below.

Hospital Revenue per Department Type
Group 3



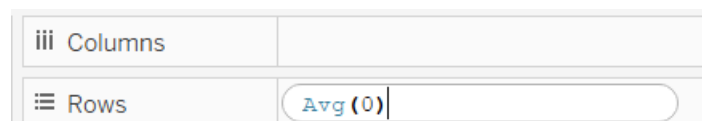
% of Total Revenue and Department Type. Color shows details about Department Type. Size shows sum of Revenue. The marks are labeled by % of Total Revenue and Department Type.

Part Three: Donut chart

Tableau has no **Show Me!** for the donut chart, which can make it a little inaccessible for some people.

Step1. Create new worksheet and renamed it as “DonutChart”.

Step2. Double-click on **Rows** and write **avg(0)**.



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Columns	
Rows	AGG(Avg(O))

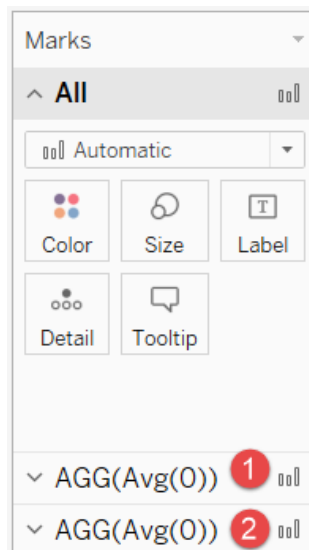
Step3. In front of the field you just created, double-click and write **avg(0)** again.

Columns	
Rows	AGG(Avg(O)) Avg (0)



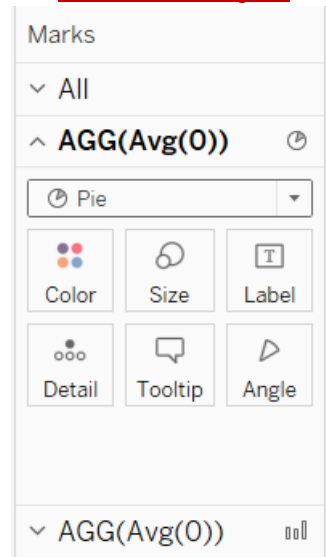
Columns	
Rows	AGG(Avg(O)) AGG(Avg(O))

Step4. You should now have two **Marks** cards:



Step5. On the first **Marks** card (1), change the mark type from automatic to **Pie** chart:

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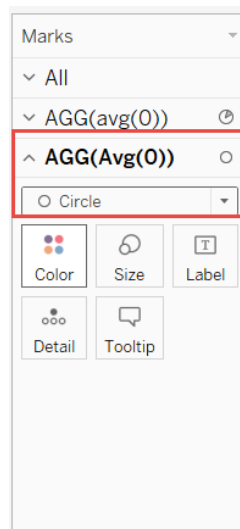


Step6. On the first Marks card (1), bring your dimension **Department Type** to **Color**, and drag measure **Revenue** to **Angle**

Step7. Drag the measure **Revenue** and the dimension **Department Type** to the Label card. Click on the Label card and select **Show mark labels**.

Step8. Right-click on the measure **Revenue** field that you just added to the Label card, and select **Quick Table Calculation** and then **Percent of Total**

Step9. On the second Marks card (2), change the mark type to **Circle**. Use the Size and Color cards to adjust the size and color of the circle, Click Color and choose white.



Step10. Now, on the **Rows**, right-click on the second **avg(0)** field and select **Dual Axis**.

Step11. Select Size and drag the slider to the left. Your donut should appear.

Step12. Also, Select the size for the first pie chart.

Step13. Change title to "Hospital Revenue Per Department Type"

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Step14. Change the size of Label to 15 and allow label to overlap

Step15. Select Size and drag the slider to the Right.

Step16. Add your group member name to the Title

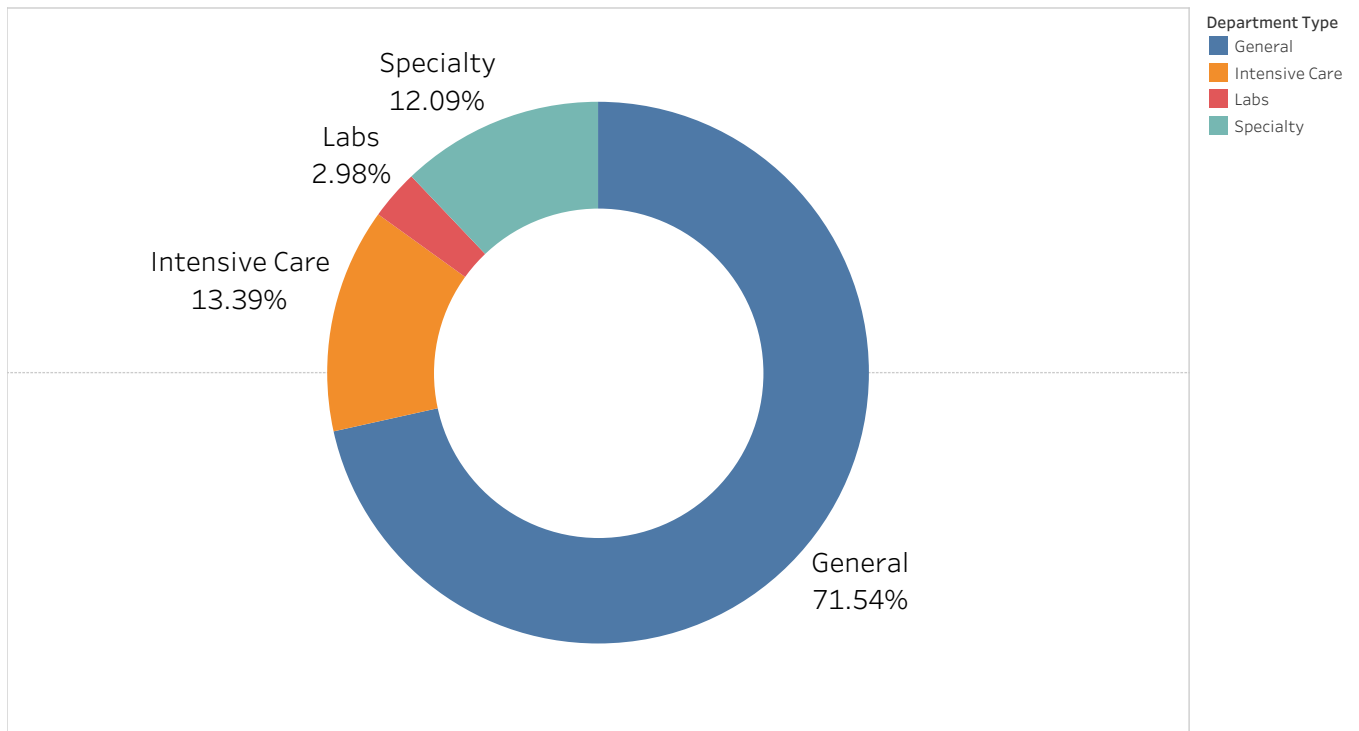
- Font size for First line in the title is 20 and type is Tableau Light
- Do not forget to hide the y-axis.

Step17. Save your tableau file as **WS04.twbx**. Now you have two worksheets in your tableau book.

Question 2. Copy and Paste the created **Donut Chart** here. Replace the figure below.

Hospital Revenue Per Department Type

Group 3



Avg(0) and avg(0). For pane Avg(0): Color shows details about Department Type. The marks are labeled by Department Type and % of Total Revenue.

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Part Four: Create a Bullet Chart

A **bullet chart** is a great way to visually compare a measure with a goal, target, or threshold.

Let's assume that hospital administration has set some goals regarding the time to service, that is, the number of minutes between the time a patient arrives at the hospital and the time they start receiving care. Administration knows that each department has unique capabilities and requirements, so they have defined different goals for each department.

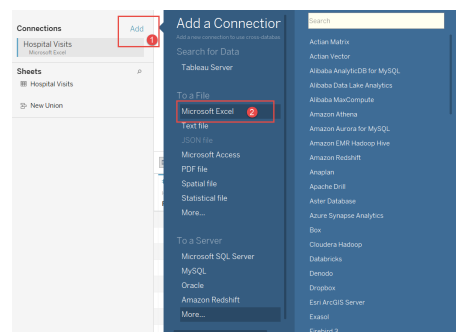
Check the excel file named “**DepartmentGoals.xlsx**”.

Our Your goal is to create a visualization that shows the actual averages per department in comparison to the goals that have been set by administration.

In this part, we will use two data sources “**Hospital Visits.xlsx**” and “**DepartmentGoals.xlsx**”.

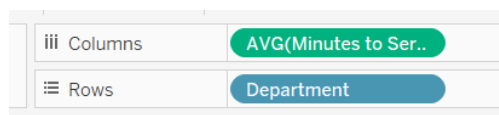
Step1. Create new worksheet and renamed it as “**BulletChart**”.

Step2. Click on Data Source tab, then click add to connect to “**DepartmentGoals.xlsx**”. Then, make relationship between two tables and Join between these two tables.



Step3. Using the **Hospital Visits** Table, create a **basic horizontal bar chart** of the average **Minutes to Service** per **Department**. (hint: use the drop-down arrow on the **Minutes to Service** field on Columns to select Measure, then change aggregation to Average).

Step4. Drag and drop the dimension Department to Rows.



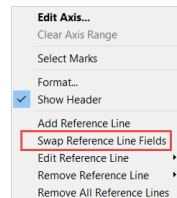
Step5. Sort Department from highest to lowest.

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Step6. In the left-hand data pane, select the **DepartmentGoals** Table and then click to select the **Minutes to Service Goal** field in the data pane under Measures.

Step7. Open **Show Me** and select the **bullet graph**. At this point, Tableau will have created a bullet chart using the fields in the view and the **Minutes to Service Goal** field you selected.

- You may need to right click on the x-axis and select “Swap Reference Line Fields”



Step8. Click on Analysis and select Create Calculated Field. Name the calculated field **Over Service Time Goal?** with the following formula



*The calculation returns true when the **Average Minutes to Service** values is greater than the goal value, and false otherwise.*

Step9. drag the new Over Service Time Goal? field from the data pane and drop it on Color.

Step10. Save your tableau file as **WS04.twbx**. Now you have three worksheets in your tableau book.

Step11. Add your group member name to the Title

- Font size for First line in the title is 20 and type is Tableau Light
- Do not forget to change the size from **Standard** to **Entire View**

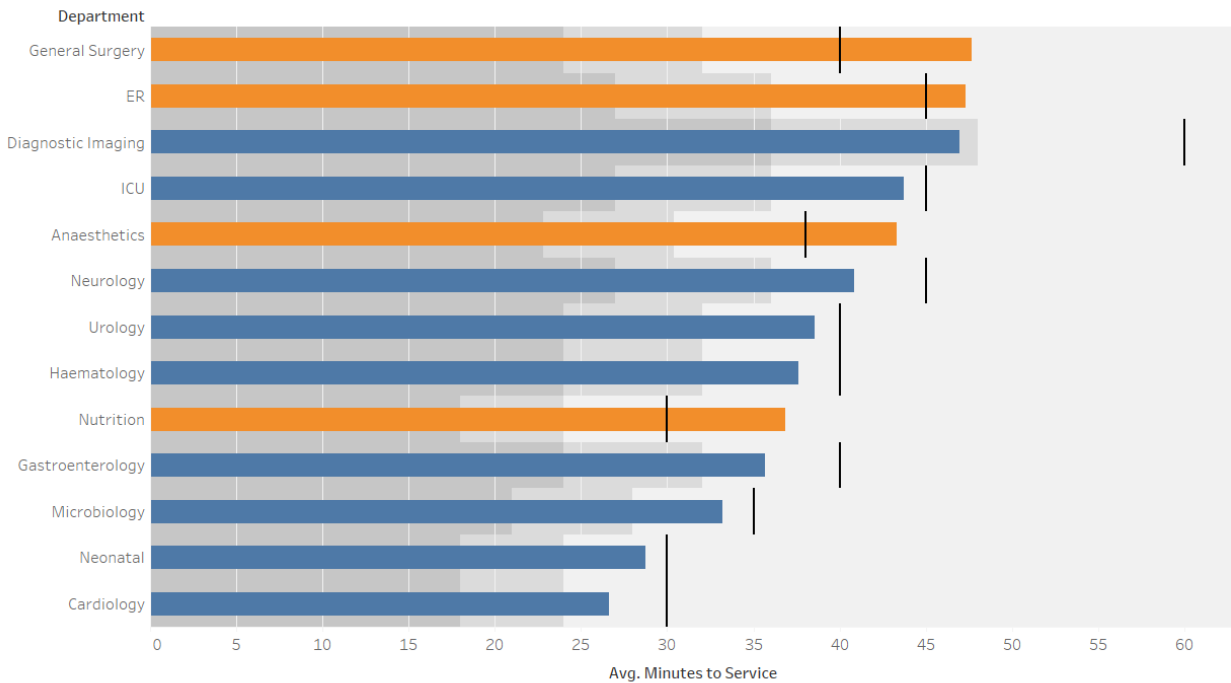
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Question 3. Copy and Paste the created **Bullet Chart** here. Replace the figure below.

Ans.

Average Minutes to Service

Group 3



Average of Minutes to Service for each Department. Color shows details about Over Service Time Goal?.

Calculation 1

■ False
■ True

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Part Five: Create Your own Chart

In this part, you will create your own chart to answer the following question

How many patients did each doctor see?

Step1. Create new worksheet and renamed it as **"YourOwnChart"**.

----- Create your own chart

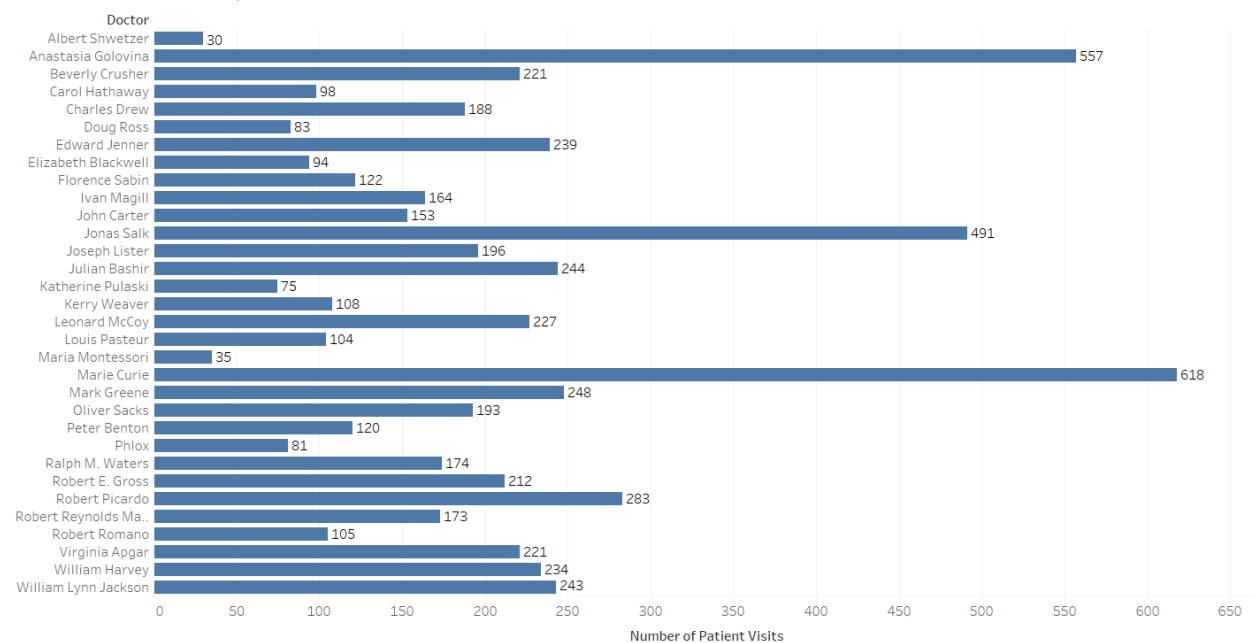
Save your tableau file as WS04.twbx. Now you have four worksheets in your tableau book.

Hints:

- You may find the Week4 lecture material helpful.
- **Do not forget to add your group member name to the Title**
 - **Font size for First line in the title is 20 and type is Tableau Light**

Question 4. Copy and Paste the created Chart here.

Your Own Chart Group3



Sum of Number of Patient Visits for each Doctor.

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Deliverables:

SENECA'S ACADEMIC HONESTY POLICY

As a Seneca student, you must conduct yourself in an honest and trustworthy manner in all aspects of your academic career. A dishonest attempt to obtain an academic advantage is considered an offense and will not be tolerated by the College.

Add this declaration to your submission file:

I/WE, ----- (mention your names), declare that the attached assignment is our own work in accordance with the **Seneca Academic Honesty Policy**. I/We do not copy any part of this assignment, manually or electronically, from any other source including web sites, unless specified as references. I do not distribute my work to other students.

	Name	Task(s)
1	Kajal Rajan	Question 1
2	Mahesh Kumar	Question 2
3	Chahat Kaur	Question 3
4	AmandeepSingh	Question 4

Using Blackboard, submit the following files

1. Report as Pdf file
2. WS04.twbx

Save your group work as

<GroupName>_ws4.???