

Introduction to Data Management PROJECT REPORT

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PROJECT REPORT ON online store's customer success

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Course Code: INT217

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DECLARATION

I, M. Vishnu Vardhan, student of Computer Science & Engineering under CSE/IT

Discipline at, Lovely Professional University, Punjab, hereby declare that all the

information furnished in this project report is based on my own intensive work and

is genuine.

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2

ACKNOWLEDGEMENT

Primarily I'd thank god for being able to complete my project with success. Then I'd like to thank my mentor **Ms. Sandeep Kaur**, whose valuable guidance has been the ones that helped me patch this project and make it full proof success in contribution towards the completion of this project.

Last but not least I'd rather thanks to **Lovely Professional University**, and my parent's inspiration, who gave me this golden opportunity to learn many new things, to learn another aspects of life.

M. Vishnu Vardhan

CONTENTS:

Sr No.	Title	Page No.
1	Introduction	5
2	Objectives/Scope of the Analysis	6
3	Dataset	7
4	ETL Process	9
5	Analysis of dataset	13
6	Final Dashboard	24
7	List of analysis	25
8	Bibliography	26

INTRODUCTION

Data management is important because the data your organization creates is a
very valuable resource.
The last thing you want to do is spend time and resources collecting data and
business intelligence, only to lose or misplace that information.
In that case, you would then have to spend time and resources again to get that
same business intelligence you already had.
And on that data analysis is carried out which show visualization of our
problems in efficient way.
Data Analysis is a process of inspecting, cleansing, transforming, and
modeling data with the goal of discovering useful information, informing
conclusions, and supporting decision- making.
This project is based on such data analysis on Online store's customer success data. This Online store's customer success dataset contains 10 data fields

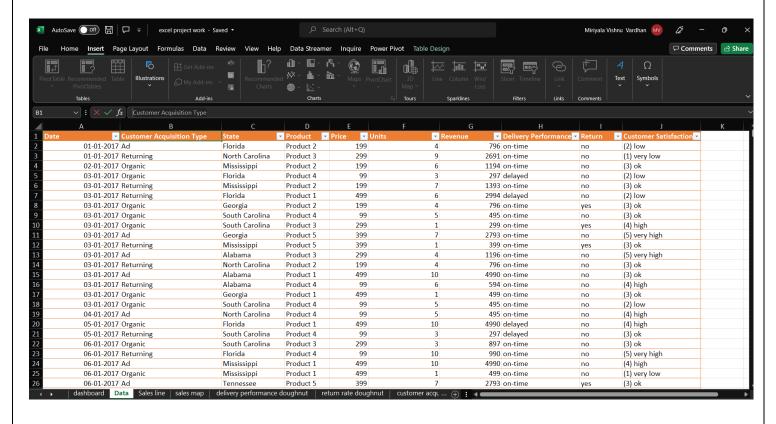
OBJECTIVES/SCOPE OF ANALYSIS

After analysis of the dataset, the aim of this project is to give answer of given objectives in easy way:

- Total revenues earned by online store in each year
- Total deliveries are on time
- Total count of revenue to the customer acquisition
- customers statsfaction to count of revenue
- sum of revenue to the STATES
- Total number of returns to the count of revenue

The columns inc	cluded in the da	taset are give	en below:	
		_		
☐ Date				
☐ Customer Ac	equisition Type			
☐ State☐ Product type				
☐ Price				
☐ Units				
☐ Revenue				
☐ Delivery per	formance			
☐ Return☐ Customer sat	isfaction			
L Customer sat	isiaction			

Sample of dataset with the dat fields:



ETL PROCESS:

- □ ETL is a process that extracts the data from different source systems, then transforms the data (like applying calculations, concatenations, etc.) and finally loads the data into the Data Warehouse system.
 □ Full form of ETL is Extract, Transform and Load.
 □ The triple combination of ETL provides crucial functions that are many times combined into a single application or suite of tools that help in the following areas:
 - Enhances Business Intelligence solutions for decision making.
 - Allows verification of data transformation, aggregation and calculations rules.
 - Allows sample data comparison between source and target system.
 - Helps to improve productivity as it codifies and reuses without additional technical skills.

Steps taken to clean dataset thorough ETL process

Step 1

using tableau I have done this process, open tableau connect the excel sheet and click on plus (+) icon, go to clean step

step 2:

Changed data type will change the type of data fields such **as** product and units converted from text into number, Revenue converted from text into currency

Step 3:

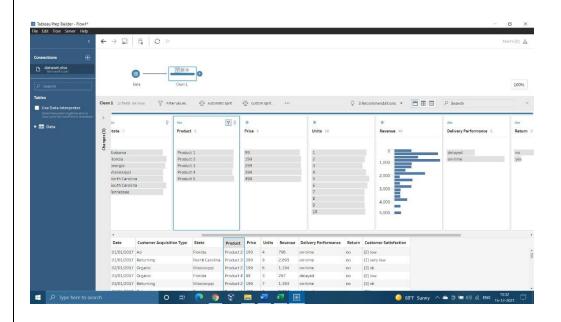
checking for null value sand deleting them

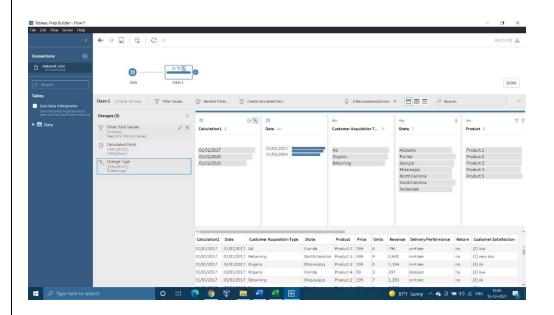
step 4:

calculating year from date using calculated field

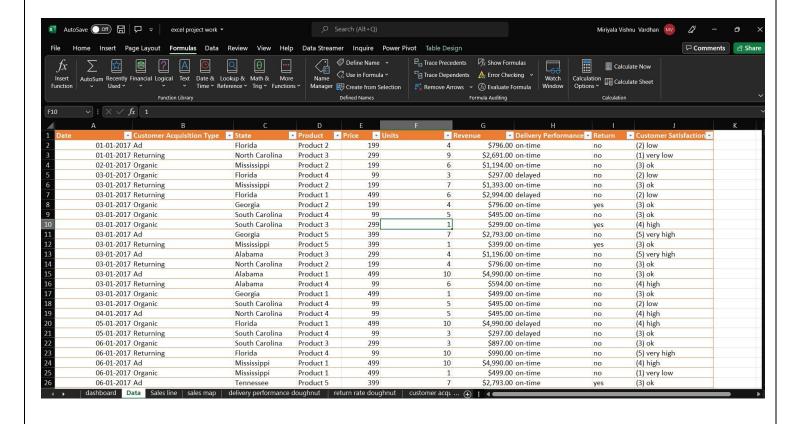
step 5:

click on the plus icon and click output





Finally, after cleaning the data, the final dataset sample is shown below:



Analysis on dataset

Total revenues earned by online store in each year

1. Total revenues earned by online store in each year

Introduction

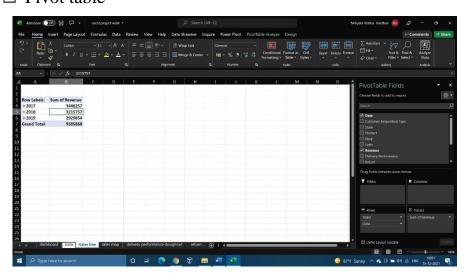
 \square By performing this analysis, Total revenues earn by the store by each year (months).

Description

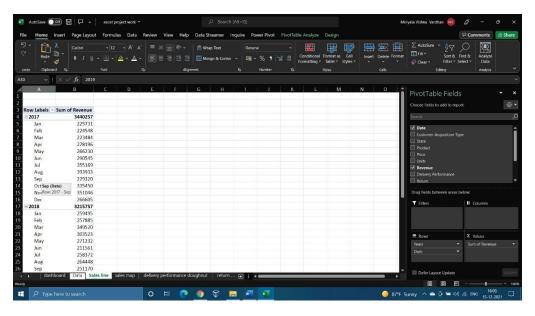
 \square The analysis is based on date, sum of revenue.

Analysis results

☐ Pivot table

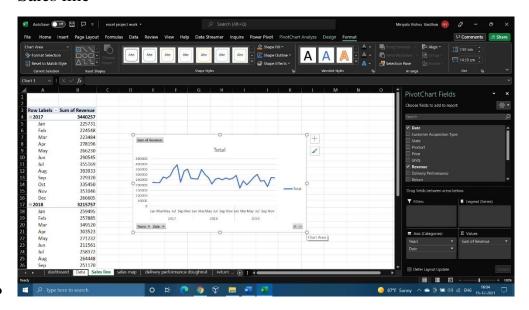


 \square When the date with years and months



Visualization

• Sales line



2. Total deliveries are in time

Introduction

☐ By performing this analysis, we will get to know that how many deliveries or on time

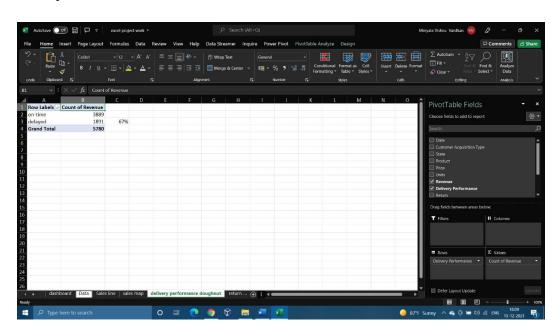
Description

 \square The analysis based on the delivery performance, revenue of the dataset

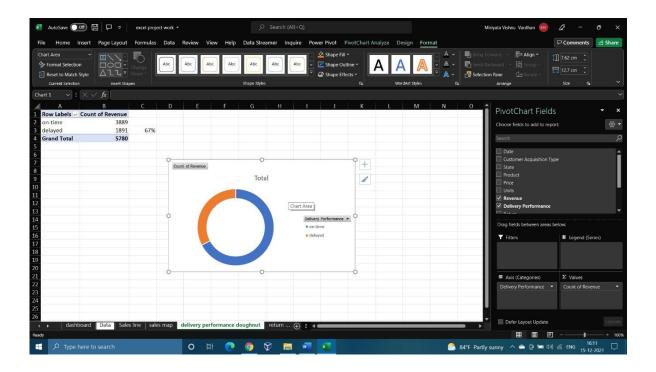
Specific requirements, functions and formulas

- \square Pivot table is used for the analysis.
- ☐ count function is used in pivot table for the count of the revenues in the pivot table
- ☐ =GETPIVOTDATA("Revenue",\$A\$1,"Delivery Performance","on-time")/GETPIVOTDATA("Revenue",\$A\$1)

Analysis results



Visualization



3. Customer acquisition to the count of revenue

Introduction

☐ By performing this analysis, we will get to know how man are Oraganic, Ad and Returning

Description

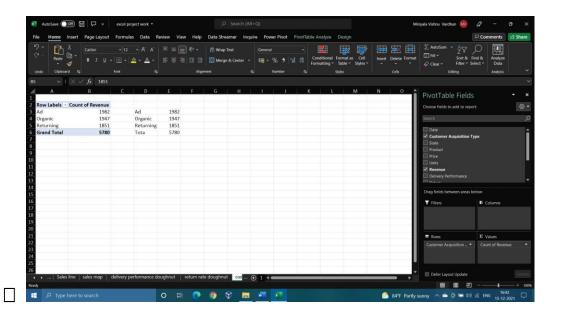
 \square The analysis based on the customer acquisation, count of revenue

Specific requirements, functions and formulas

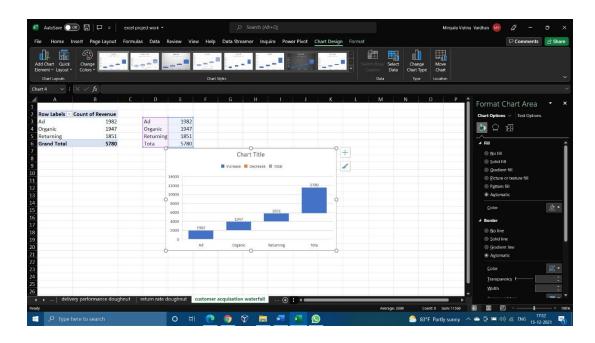
 \square Pivot table is used for the analysis.

 \Box Count function is used in pivot table for the counting of the title in the pivot table

Analysis results



Visualization



4. Customer satisfaction to count of revenue

Introduction

☐ By performing this analysis, we will to know that how many liked the product according to product type

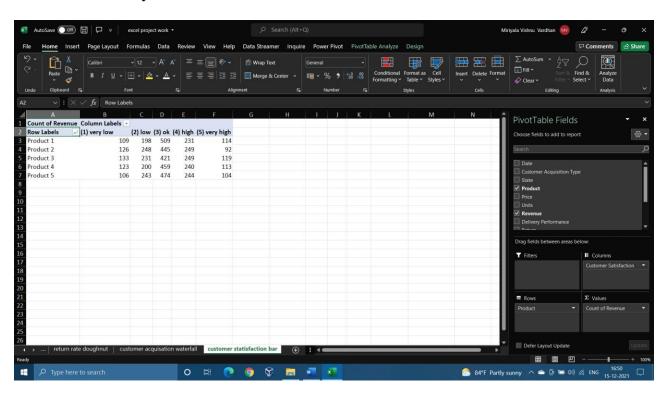
Description

☐ The analysis is based on customer statisfaction, count of revenue of the dataset

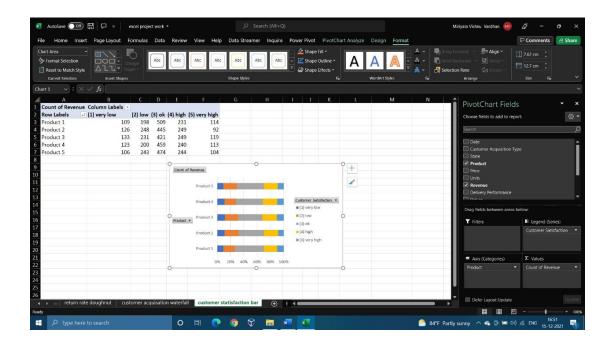
Specific requirements, functions and formulas

- \square Pivot table is used for the analysis.
- \Box count function is used in pivot table for the count of revenue of the data set

Analysis results



Visualization



5. Sum of the revenue to the states

Introduction

☐ By performing this analysis, we will get which states has more revenue

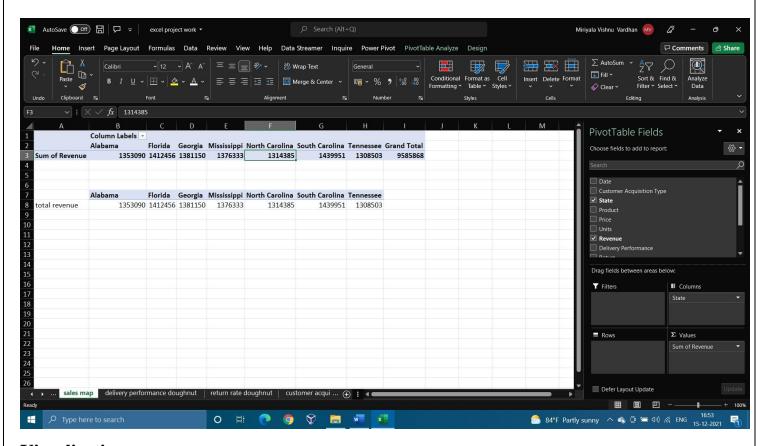
Description

 \Box The analysis is based on state, sum of the revenue

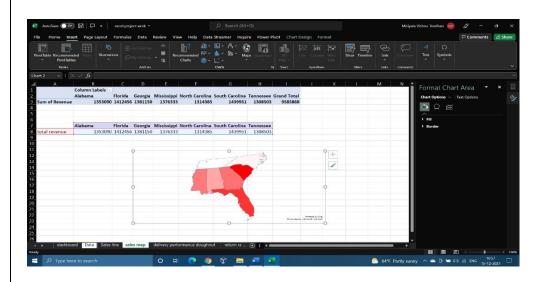
Specific requirements, functions and formulas

- \square Pivot table is used for the analysis.
- \square Sum function is used in pivot table for the sum of revenue.

Analysis results



Visualization



6. Return of items

Introduction

☐ By performing this analysis, we will how many returns are happened

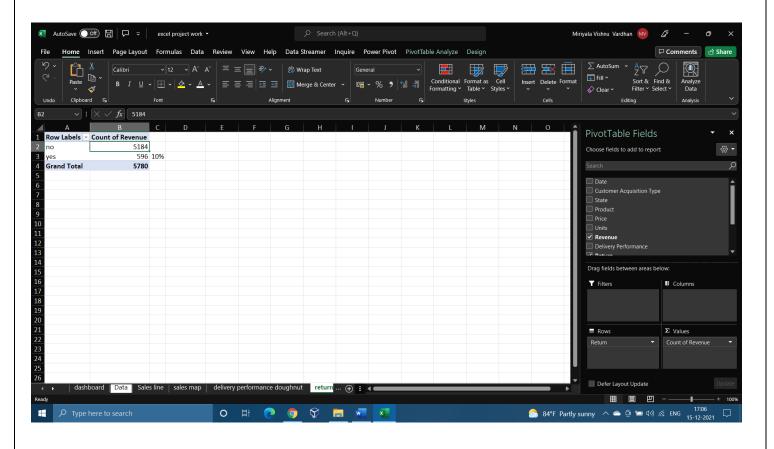
Description

 \square The analysis is based on return, count of revenue of the dataset

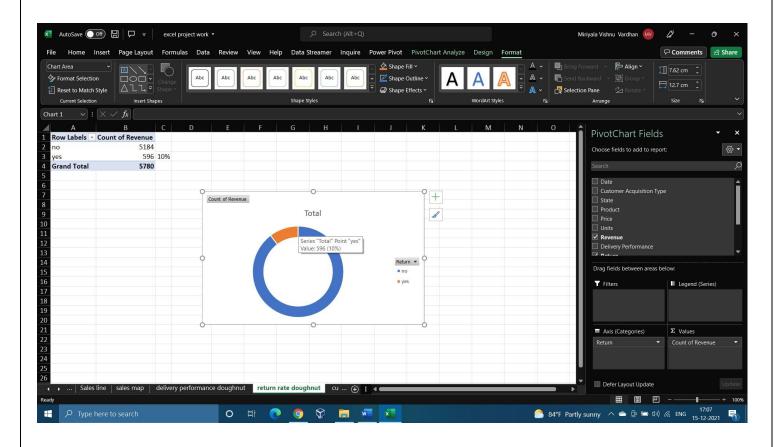
Specific requirements, functions and formulas

- \square Pivot table is used for the analysis.
- ☐ Count function is used in pivot table for the count of the revenue

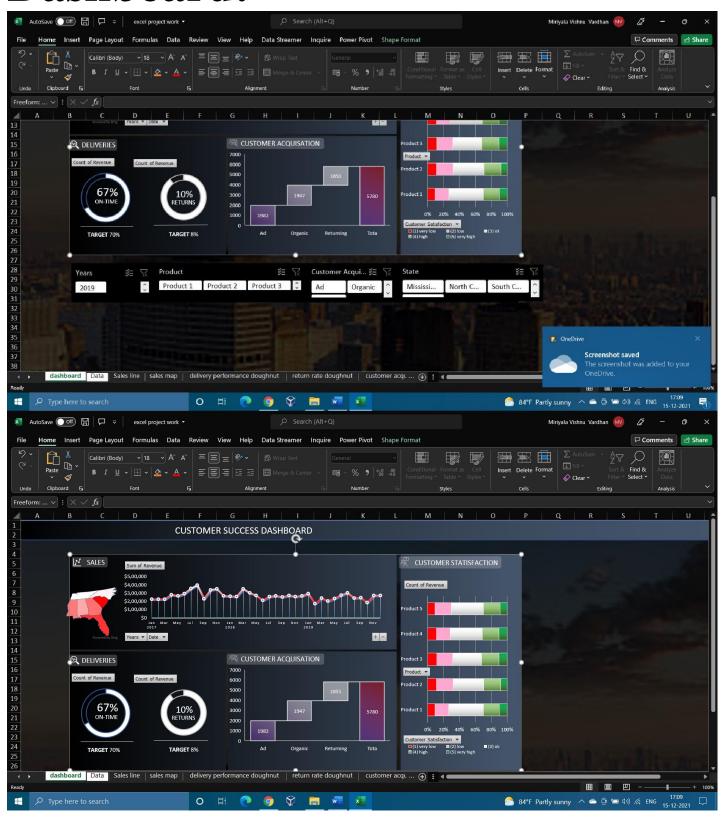
Analysis results



Visualization



Dashboard:



List of analysis:

- 1. We get know the 67% of the deliveries are on time
- 2. We get know the 10% of the items are returned
- 3. The trend of the sales in 3 years
- 4. Maximum number of sales are in south carolina
- 5. The result gives the satisfaction of the customers to the products

References 1. www.kaggle.com 2. www.youtube.com 3. www.google.com 4. www.stackoverflow.com	
5. <u>www.github.com</u>	
Bibliography 1. Microsoft Excel 2016 Bible: The Comprehensive Tutorial Resource by John Walker Wiley	nbach,
	26