

PROFESSIONAL TRAINING REPORT

Sathyabama Institute of Science and Technology

(Deemed to be University)

Submitted in partial fulfilment of the requirements for the award
of Bachelor of Technology Degree in Information Technology

by

VIGHNESH S U
(40120104)



DEPARTMENT OF INFORMATION TECHNOLOGY

SCHOOL OF COMPUTING

SATHYABAMA

INSTITUTE OF SCIENCE AND TECHNOLOGY

(DEEMED TO BE UNIVERSITY)

Accredited with Grade “A” by NAAC | 12B Status by UGC | Approved by AICTE

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CHENNAI, TAMILNADU – 600119

April 2023



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DEPARTMENT OF INFORMATION TECHNOLOGY

BONAFIDE CERTIFICATE

This is to certify that this Project Report is the bonafide work of **Vighnesh S U**
(Reg. No. 40120104) who carried out the project entitled "**AMUSEMENT PARK VISITORS COUNT**" under my supervision from January 2023 to April 2023 .

INTERNAL GUIDE

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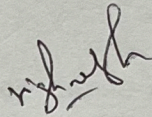
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DECLARATION

I, **Vighnesh.S.U (Reg.No. 40120104)** hereby declare that the Project Report entitled "**AMUSEMENT PARK VISITORS COUNT**" done by me under the guidance of **Dr.C.Geetha M.E., Ph.D.**, is submitted in partial fulfillment of the requirements for the award of Bachelor of Technology degree in Information Technology.

DATE: 29-04-2023



PLACE: CHENNAI

SIGNATURE OF CANDIDATE

ACKNOWLEDGEMENT

I am pleased to acknowledge our sincere thanks to Board of management of **SATHYABAMA** for their kind encouragement in doing this project and for completing it successfully. I am grateful to them.

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I wish to express my thanks to all Teaching and Non-teaching staff members of the **Department of Information Technology** who were helpful in many ways for the completion of the project.

CERTIFICATE:



ABSTRACT

The amusement park count using Power BI abstract for a project would describe the process of using Microsoft's data visualization and analysis tool to analyze data on the number of amusement parks in a given area or region. The abstract would outline the steps involved in collecting and importing the data into Power BI, as well as the techniques used to create reports and dashboards that summarize the data in a clear and visually compelling way. The purpose of the abstract would be to provide readers with a high-level overview of the project, including its objectives, methodology, and findings. It would also highlight any limitations or challenges encountered during the project, as well as any recommendations for future research or improvements to the data analysis process. Ultimately, the amusement park count using Power BI abstract would demonstrate the value of using data visualization tools to gain insights into complex datasets and inform decision-making in the amusement park industry.

Chapter No	TITLE	Page No.
	CERTIFICATE	v
	ABSTRACT	vi
	LIST OF FIGURES	ix
1	INTRODUCTION	1
	1.1 PROBLEM STATEMENT	1
	1.2 OBJECTIVES	2
	1.3 SPECIFICATION	3
	1.5.1 HARDWARE CONFIGURATION	3
	1.5.2 SOFTWARE CONFIGURATION	3
2	LITERATURE SURVEY	4
3	METHODS AND ALGORITHM	7
	3.1 PROJECT DEVELOPMENT	7
	3.2 DATA ANALYTICS	8
	3.2.1 DATA COLLECTION	8
	3.2.2 DATA CLEANING	8
	3.2.3 DATA ANALYTICS	8
	3.2.4 DATA INTERPRETATION	8
	3.2.5 DATA VISUALIZATION	8
	3.3 TYPES OF DATA ANALYTICS	9
	3.3.1 DESCRIPTIVE ANALYSIS	9
	3.3.2 DIAGNOSTIC ANALYSIS	10
	3.3.3 PREDICTIVE ANALYSIS	11

	3.3.4	PRESCRIPTIVE ANALYSS	12
3.4		SYSTEM REQUIREMENTS	13
	3.4.1	WINDOWS	13
	3.4.2	MAC	13
	3.4.3	LINUX	13
3.5		POWER BI	14
	3.5.1	USES OF POWER BI	14
3.6		METHODOLOGY	15
4		RESULTS AND DISCUSSION	23
5		CONCLUSION AND FURTHER WORK	25
		REFERENCES	26
		APPENDIX	27
		SCREENSHOTS OF DATA SET	27
		SCREENSHOT OF OUTPUTS	31

LIST OF FIGURES

FIGURE NO	FIGURE NAME	PAGE NO
3.1	PROJECT DEVELOPMENT	7
3.2	EXCEL DATA	16
3.3	NO OF VISITORS BY FAMILY	17
3.4	NO OF VISITORS BY FAMILY	18
3.5	NO OF VISITORS AND SUM OF AGE	18
3.6	TOTAL AGE BY FAMILY	19
3.7	AGE BY GENDER	20
3.8	NO.OF VISITORS BY NATIONALITY AND AGE BY FAMILY	21
3.9	NO OF VISITORS BY NATIONALITY	22
3.10	VISITORS IN AMUSEMENT PARK	23

CHAPTER-1

INTRODUCTION

The amusement park industry is a thriving sector that attracts millions of visitors each year, offering a wide range of entertainment and attractions for people of all ages. However, despite its popularity, little is known about the number of amusement parks in various regions or countries. This lack of information presents a challenge for policymakers, investors, and park operators who need to make informed decisions about the industry's future growth and development. To address this issue, this project aims to collect and analyze data on the number of amusement parks in a specific area or region, using the data visualization and analysis tool, Power BI. The project will focus on collecting and analyzing data on the location, size, popularity, and attractions of amusement parks, as well as any relevant industry trends or patterns. The purpose of this project is to provide a comprehensive overview of the amusement park industry in the selected area, to inform decision-making and future planning. The insights gained from this project will be useful for policymakers looking to promote tourism and economic growth, investors seeking opportunities for investment, and park operators looking to improve their operations and offerings. Overall, this project aims to shed light on the current state of the amusement park industry, identify potential opportunities for growth and development, and provide a solid foundation for further research and analysis.

1.1. PROBLEM STATEMENT

Despite the popularity and economic significance of the amusement park industry, there is a lack of information on the number of amusement parks in various regions or countries. This lack of data presents a challenge for policymakers, investors, and park operators who need to make informed

decisions about the industry's future growth and development. The purpose of this project is to collect and analyze data on the number of amusement parks in a specific area or region, using Power BI as a data visualization and analysis tool. The project will focus on collecting and analyzing data on the location, size, popularity, and attractions of amusement parks, as well as any relevant industry trends or patterns. The problem this project seeks to address is the lack of comprehensive data on the amusement park industry, which makes it difficult for stakeholders to make informed decisions about investments, operations, and policies. By providing a clear and detailed overview of the industry in the selected area, this project aims to fill this gap in knowledge and provide a foundation for further research and analysis.

1.2. OBJECTIVES

The objectives of this project are as follows:

- To collect comprehensive data on the number of amusement parks in the selected area or region, including their location, size, popularity, and attractions.
- To analyze the collected data using Power BI to identify any trends, patterns, or relationships among the variables.
- To create visually compelling reports and dashboards that summarize the data in a clear and informative way, using Power BI's data visualization and analysis capabilities.
- To identify potential opportunities for growth and development in the amusement park industry, based on the insights gained from the data analysis.
- To provide a solid foundation for further research and analysis of the amusement park industry, by documenting the data sources, methodology, and findings of the project.

Overall, the objectives of this project are to provide a comprehensive and detailed overview of the amusement park industry in the selected area, to inform decision

making and planning by policymakers, investors, and park operators, and to advance knowledge and understanding of the industry

1.3 SPECIFICATIONS

1.3.1 HARDWARE CONFIGURATION

- Processor - I5
- Speed - 3 GHz
- RAM - 8GB (min)
- Hard Disk - 500 GB
- Key Board - Standard Windows Keyboard
- Mouse - Two or Three Button Mouse
- Monitor - LCD
- Ethernet connection :(LAN)

1.3.2 SOFTWARE CONFIGURATION

- Microsoft Excel sheet
- Power BI Application
- Web Browser

CHAPTER - 2

LITERATURE SURVEY

[1] In "The Amusement Park Industry: A Global Analysis," Lew (2018) examines the current state of the global amusement park industry, including its size, growth, and trends. The paper reviews existing literature on the industry, noting that previous studies have primarily focused on the economic impact of amusement parks on local communities and tourism, as well as visitor satisfaction and behavior. However, there is a lack of research on the overall structure and dynamics of the industry, particularly in terms of its global reach and competition. Lew (2018) notes that the global amusement park industry has experienced significant growth in recent years, driven by factors such as rising incomes, increasing leisure time, and a growing middle class. However, the industry faces a range of challenges, including competition from other entertainment options, changing consumer preferences, and safety and security concerns.

The paper identifies several key trends in the industry, including the increasing importance of technology and digital experiences, the growth of indoor parks and attractions, and the rise of themed entertainment experiences. Lew (2018) argues that these trends are likely to continue in the future, with the industry evolving to meet the changing demands of consumers. Overall, "The Amusement Park Industry: A Global Analysis" provides a comprehensive overview of the global amusement park industry, highlighting its opportunities and challenges. The paper suggests that there is a need for further research on the industry, particularly in terms of its competitive dynamics and global reach.

[2] "Amusement Park Attendance and Regional Economic Development" by Pillemer and Rosentraub (2018) examines the potential economic impact of amusement parks on regional development. The paper reviews existing literature on the topic and analyzes data on attendance and economic activity at amusement parks in the United States. The authors suggest that amusement parks can be an effective tool for regional economic development, but caution that their impact should be evaluated in a broader context.

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[4] "Analysis and Prediction of Theme Park Visitors using Time Series Models" by Wang, Zhang, and Guo (2018) examines the use of time series models to analyze and predict visitor behavior at theme parks. The paper reviews existing literature on the topic and uses data on visitor attendance and weather conditions to develop and test several models. The authors suggest that such models can be a valuable tool for theme park operators in making more accurate attendance predictions and developing targeted marketing campaigns.

[5] "Wang et al.'s (2018) paper on Analysis and Prediction of Theme Park Visitors using Time Series Models" explores the use of such models to predict visitor behavior at theme parks. They found the ARIMA model to be effective in predicting visitor attendance, and suggest that such models can help park operators to make more accurate predictions and adjust their strategies accordingly. The paper highlights the importance of identifying key factors that drive visitor behavior to develop targeted marketing and promotional campaigns.

[6]In "Analysis of Factors Influencing Visitor Attendance at Theme Parks using Regression Analysis: A Case Study of a Major Theme Park in South Korea," Yoon, Jang, and Lee (2019) identify the factors that impact visitor attendance at a South Korean theme park. Using regression analysis, they found that weather conditions, seasonality, and availability of new attractions have the most significant impact on attendance, while pricing has a relatively low effect. The paper emphasizes the importance of considering a range of factors when developing marketing and promotional strategies and recommends park operators focus on developing new and innovative attractions.

CHAPTER – 3

METHODS & ALGORITHM USED

3.1 PROJECT DEVELOPMENT:

In this section, there is an overview of the process of data mining and data modelling, from collecting the data, through the data preparation and finally the data modeling. Data cleaning and formatting can be considered as the most critical part of the whole project according to several data scientists. Figure 3.1 shows how the process of data mining works to extract knowledge using algorithms.

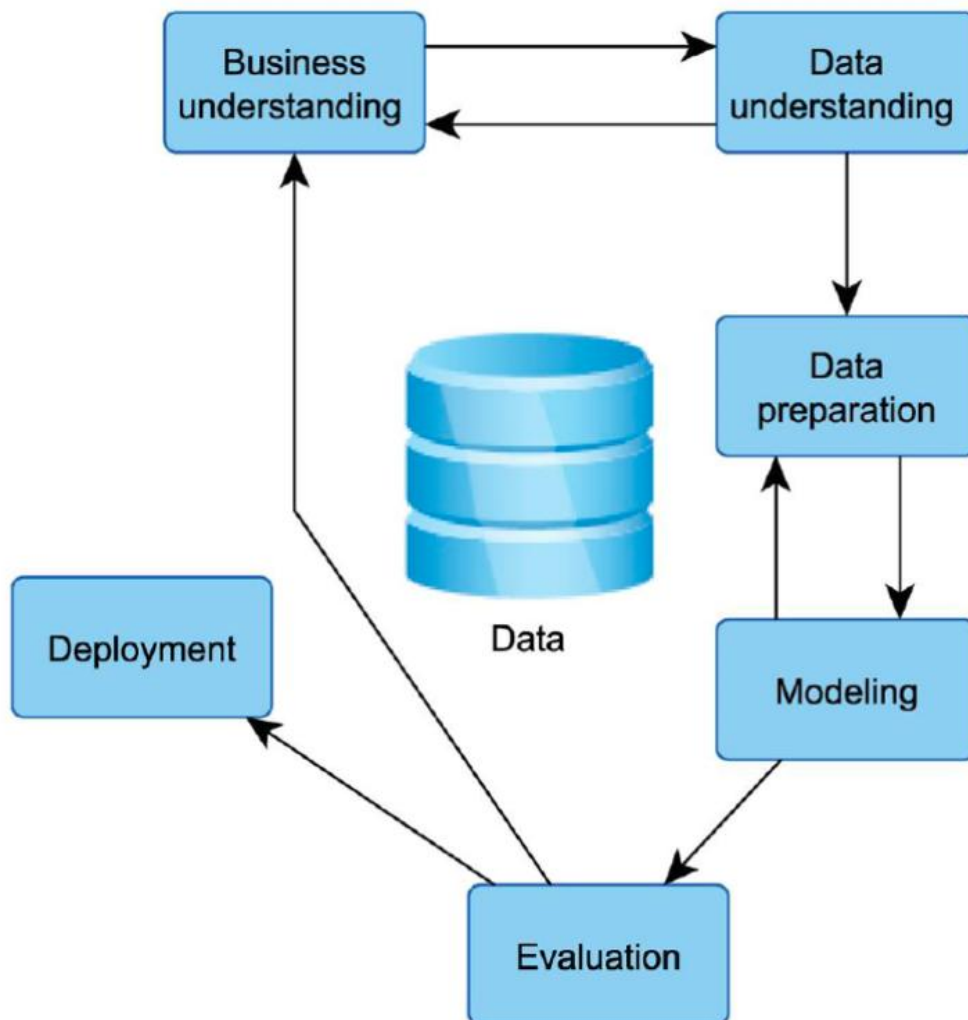


Fig:3.1 PROJECT DEVELOPMENT

3.2 DATA ANALYTICS:

The process of data analysis, or alternately, data analysis steps, involves gathering all the information, processing it, exploring the data, and using it to find patterns and other insights. The process of data analysis consists of: Data Requirement Gathering: Ask yourself why you're doing this analysis, what type of data you want to use, and what data you plan to analyses.

3.2.1 Data Collection:

Guided by your identified requirements, it's time to collect the data from your sources. Sources include case studies, surveys, interviews, questionnaires, direct observation, and focus groups. Make sure to organize the collected data for analysis.

3.2.2 Data Cleaning:

Not all the data you collect will be useful, so it's time to clean it up. This process is where you remove white spaces, duplicate records, and basic errors. Data cleaning is mandatory before sending the information on for analysis.

3.2.3. Data Analysis:

Here is where you use data analysis software and other tools to help you interpret and understand the data and arrive at conclusions. Data analysis tools include Excel, Python, R, Looker, Rapid Miner, Charito, Meta base, Rehash, and Microsoft Power BI.

3.2.4. Data Interpretation:

Now that you have your results, you need to interpret them and come up with the best courses of action based on your findings.

3.2.5. Data Visualization:

Data visualization is a fancy way of saying, "graphically show your information in a way that people can read and understand it." You can use charts, graphs, maps,

bullet points, or a host of other methods. Visualization helps you derive valuable insights by helping you compare datasets and observe relationships.

3.3 Types of Data Analysis:

The four types of data analysis are:

1. Descriptive Analysis
2. Diagnostic Analysis
3. Predictive Analysis
4. Prescriptive Analysis

3.3.1. DESCRIPTIVE ANALYSIS:

Descriptive analytics answer the question, “What happened?”. This type of analytics is by far the most commonly used by customers, providing reporting and analysis centered on past events. It helps companies understand things such as:

- How much did we sell as a company?
- What was our overall productivity?
- How many customers churned in the last quarter?

Descriptive analytics is used to understand the overall performance at an aggregate level and is by far the easiest place for a company to start as data tends to be readily available to build reports and applications. It's extremely important to build core competencies first in descriptive analytics before attempting to advance upward in the data analytics maturity model. 23 Core competencies include things such as data modeling fundamentals, communicating data with right visualization and basic dashboard skills. It's likely you've adopted some form of descriptive analytics internally, whether that be static P&L statements, PDF reports, or reporting within an analytics tool. For a true descriptive analytics program to be implemented, the concepts of repeatability and automation of tasks must be top of mind. Repeatability in that a data process is standardized and can be regularly applied with minimal

effort (think a weekly sales report), and automation in that complex task (VLOOKUPS, merging of excel spreadsheets, etc.) are automated—requiring little to no manual intervention.

3.3.2. DIAGNOSTIC ANALYSIS:

Diagnostic analytics, just like descriptive analytics, uses historical data to answer a question. But instead of focusing on “what”, diagnostic analytics addresses the critical question of why an occurrence or anomaly occurred within your data. Diagnostic analytics also happens to be the most overlooked and skipped step within the analytics maturity model. Anecdotally, I see most customers attempting to go from “what happened” to “what will happen” without ever taking the time to address the “why did it happen” step. This type of analytics helps companies answer questions such as:

- Why did our company sales decrease in the previous quarter?
 - Why are we seeing an increase in customer churn?
 - Why is a specific basket of products vastly outperforming their prior year sales figures?
- Diagnostic analytics tends to be more accessible and fit a wider range of use cases than machine learning/predictive analytics. You might even find that it solves some business problems you earmarked for predictive analytics use cases. Being at the diagnostic analytics phase likely means you’ve adopted a modern analytics tool. Most modern analytics tools contain a variety of search-based, or lightweight artificial intelligence capabilities. ²⁴ These features allow for detailed insights a layer deeper (for example: the Key Drivers visualization in Power BI, or Qlik’s search-based insight functionality). To be clear, these are an effective lightweight means to address diagnostic analytics use cases but are not a means to a full-scale implementation. Software vendors like Sisú have built their core business around addressing diagnostic analytics use cases (what they call “augmented analytics”) and are a great bet. Diagnostic analytics is an important step in the maturity model that unfortunately tends to get skipped or obscured. If you cannot infer why your sales decreased 20% in 2020, then jumping to predictive analytics

and trying to answer “what will happen to sales in 2021” is a stretch in advancing upward in the analytics maturity model.

3.3.3. PREDICTIVE ANALYSIS:

Predictive analytics is a form of advanced analytics that determines what is likely to happen based on historical data using machine learning. Historical data that comprises the bulk of descriptive and diagnostic analytics is used as the basis of building predictive analytics models. Predictive analytics helps companies address use cases such as:

- Predicting maintenance issues and part breakdown in machines.
- Determining credit risk and identifying potential fraud.
- Predict and avoid customer churn by identifying signs of customer dissatisfaction.

At the outset of any predictive analytics build, three core elements need to be established:

- Identify a problem to solve,
- Define what is you want to predict, and
 - State what you will achieve by doing so. To start you should collect existing data, organize data in a useful way to allow for data modeling, cleanse your data and review overall quality, and finally determine your modeling objective. 25 While modeling takes up the spotlight in predictive analytics, data prep is a crucial step that needs to happen first. This is why organizations with a rock-solid foundation in descriptive and diagnostic analytics are better equipped to handle predictive analytics. Simply put, the time and effort to prep, transform, and ensure data quality for retrospective reporting has already taken place. The groundwork should be relatively well laid to quickly identify and leverage data for the modeling phase. I always encourage customers with well-defined KPIs and business logic in a specific business reporting area (think sales reporting for example) to use that as the first predictive analytics use case. The goal is to derive value quickly, and there is no

better place to start than an area where you know data is well defined and of high quality.

3.3.4. PRESCRIPTIVE ANALYSIS:

Prescriptive analytics is the fourth and final pillar of modern analytics. Prescriptive analytics pertains to true guided analytics where your analytics is prescribing or guiding you toward a specific action to take. It is effectively the merging of descriptive, diagnostic, and predictive analytics to drive decision making. Existing scenarios or conditions (think your current fleet of freight trains) and the ramifications of a decision or occurrence (parts breakdown on the freight trains) are applied to create a guided decision or action for the user to take (proactively buy more parts for preventative maintenance). Prescriptive analytics requires strong competencies in descriptive, diagnostic, and predictive analytics which is why it tends to be found in highly specialized industries (oil and gas, clinical healthcare, finance, and insurance to name a few) where use cases are well defined. Prescriptive analytics help to address use cases such as:

- Automatic adjustment of product pricing based on anticipated customer demand and external factors.
 - Flagging selects employees for additional training based on incident reports in the field.
- 26 Prescriptive analytics' primary aim is to take the educated guess or assessment out of data analytics and streamline the decision-making process. Prescriptive analytics is commonly considered the merging of descriptive, diagnostic, and predictive analytics. Getting started isn't so much a step-by-step list but rather the time and effort up front to build your competencies within the analytics maturity curve. Simply put, there is no starting point in prescriptive analytics without the requisite first three pillars of modern analytics being established first. If you're ready for prescriptive analytics, then quantifying your call to action and the underlying criteria will be the first requirement. For example: if the use case is to call corrective action for an employee (i.e. – additional training based on poor performance) then the factors that necessitate this action must be firmly established and the action itself

must be clearly defined. Knowing how each kind of analytics helps you better understand your data and how to use it.

3.4 System Requirements:

3.4.1 Windows:

- Microsoft® Windows® 7/8/10 64-bit
- 4 GB RAM minimum, 8 GB RAM recommended
- 2 GB of available disk space minimum,
 - 4 GB Recommended 500 MB for IDE + 1.5 GB for Android SDK and emulator system image
- 1280 x 800 minimum screen resolution

3.4.2 Mac:

- Mac® OS X® 10.10 Yosemite or higher, up to 10.14 macOS Mojave
- 4 GB RAM minimum, 8 GB RAM recommended
- 2 GB of available disk space minimum,
 - 4 GB Recommended 500 MB for IDE + 1.5 GB for Android SDK and emulator system image

3.4.3 Linux:

- GNOME or KDE desktop - Tested on gLinux based on Debian.
- 64-bit distribution capable of running 32-bit applications
- GNU C Library glibc 2.19 or later 17
- 4 GB RAM minimum, 8 GB RAM recommended
- 2 GB of available disk space minimum.

3.5 POWER BI:

Power BI is an interactive data visualization software product developed by Microsoft with a primary focus on business intelligence. It is part of the Microsoft Power Platform. Power BI is a collection of software services, apps, and connectors that work together to turn unrelated sources of data into coherent, visually immersive, and interactive insights. Data may be input by reading directly from a database, webpage, or structured files such as spreadsheets, CSV, XML, and JSON. Microsoft Power BI is a business intelligence (BI) platform that provides nontechnical business users with tools for aggregating, analyzing, visualizing and sharing data. 27 Power BI's user interface is fairly intuitive for users familiar with Excel, and its deep integration with other Microsoft products makes it a versatile self-service tool that requires little upfront training. Users can download an application for Windows 10, called Power BI Desktop, and native mobile apps for Windows, Android and iOS devices. There is also Power BI Report Server for companies that must maintain their data and reports on premises. That version of Power BI requires a special version of the desktop app -- aptly called Power BI Desktop for Power BI Report Server.

3.5.1 USES OF POWER BI:

Microsoft Power BI is used to find insights within an organization's data. Power BI can help connect disparate data sets, transform and clean the data into a data model and create charts or graphs to provide visuals of the data. All of this can be shared with other Power BI users within the organization. The data models created from Power BI can be used in several ways for organizations, including the following:

- telling stories through charts and data visualizations;
- examining "what if" scenarios within the data;
- creating reports that can answer questions in real time and help with forecasting to make sure departments meet business metrics. Power BI can also provide executive dashboards for administrators or managers, giving management more insight into how departments are doing

3.6 METHODOLOGY:

The project is implemented in Microsoft excel and Microsoft power Bi.

- We need to collect the data set for our product, over a year or 365 days.
- So, we are creating a data set for our product
- That includes:
 1. Payment method
 2. Customer age
 3. Customer gender
 4. Monthly sales
 5. Product brand
 6. Price range
 7. Product colour
 8. Product defect
 9. Warrenty
 10. Location

Now enter the dataset in Microsoft excel sheet as per the date and month as show in the fig 3.2

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
271	27-09-2022	27	MALE	JAPANESE	9-12	NO	NO	NO	YES	NO	NO										
272	28-09-2022	32	MALE	INDIAN	1-4	YES	NO	YES	NO	NO	NO										
273	29-09-2022	31	FEMALE	JAPANESE	9-12	NO	YES	NO	NO	NO	YES										
274	30-09-2022	31	FEMALE	RUSSIAN	1-4	YES	NO	NO	YES	NO	NO										
275	01-10-2022	31	FEMALE	AFRICAN	5-7	YES	YES	YES	YES	YES	NO										
276	02-10-2022	33	FEMALE	AMERICAN	5-7	NO	YES	NO	YES	NO	YES										
277	03-10-2022	32	MALE	JAPANESE	9-12	NO	YES	NO	NO	YES	YES										
278	04-10-2022	32	MALE	AFRICAN	5-7	YES	YES	NO	YES	NO	NO										
279	05-10-2022	43	MALE	AFRICAN	5-7	YES	YES	NO	NO	YES	YES										
280	06-10-2022	32	MALE	AMERICAN	5-7	NO	NO	YES	NO	YES	YES										
281	07-10-2022	42	MALE	JAPANESE	1-4	YES	YES	NO	NO	YES	NO										
282	08-10-2022	26	MALE	RUSSIAN	1-4	NO	NO	NO	NO	YES	YES										
283	09-10-2022	42	MALE	CHINESE	1-4	NO	YES	YES	YES	NO	NO										
284	10-10-2022	19	FEMALE	AMERICAN	5-7	NO	YES	YES	NO	NO	YES										
285	11-10-2022	38	MALE	JAPANESE	9-12	NO	NO	NO	YES	YES	YES										
286	12-10-2022	38	MALE	AFRICAN	5-7	YES	NO	NO	NO	NO	NO										
287	13-10-2022	32	MALE	AFRICAN	5-7	NO	NO	YES	NO	YES	NO										
288	14-10-2022	42	MALE	RUSSIAN	1-4	NO	YES	NO	NO	YES	YES										
289	15-10-2022	43	MALE	RUSSIAN	1-4	YES	NO	NO	YES	YES	NO										
290	16-10-2022	42	MALE	JAPANESE	9-12	YES	YES	YES	NO	NO	NO										
291	17-10-2022	24	FEMALE	AFRICAN	5-7	NO	YES	YES	YES	YES	YES										
292	18-10-2022	42	MALE	INDIAN	9-12	YES	NO	NO	NO	NO	YES										
293	19-10-2022	20	MALE	AMERICAN	5-7	YES	YES	NO	YES	NO	NO										
294	20-10-2022	43	MALE	AFRICAN	5-7	NO	YES	YES	NO	NO	NO										
295	21-10-2022	24	FEMALE	AMERICAN	5-7	YES	NO	NO	NO	YES	NO										
296	22-10-2022	43	MALE	RUSSIAN	5-7	YES	NO	NO	YES	YES	NO										
297	23-10-2022	32	MALE	INDIAN	9-12	YES	YES	YES	NO	YES	YES										
298	24-10-2022	29	FEMALE	INDIAN	9-12	YES	YES	YES	NO	YES	NO										
299	25-10-2022	38	MALE	INDIAN	9-12	NO	YES	NO	NO	NO	YES										
300	26-10-2022	24	FEMALE	AFRICAN	5-7	NO	YES	YES	YES	YES	YES										

Fig 3.2 Excel Data

- Here our project is about the visitors at an amusement park.
- So, we are entering all the data about the amusement park like nationality, gender, timing, student data and so on.
- Import the excel data in the Power Bi
- Create the required KPI's
- Here in our project, we created pie chart, bar chart, forecasting etc.
- We also created Q&A KPI also
- Now we can easily predict the number of visitors on the basis of the KPI such as number of visitors by year, number of visitors by nationality and so on.
- If we click on the bar chart it shows the percentage count of the visitors.

NO OF VISITORS BY MONTH

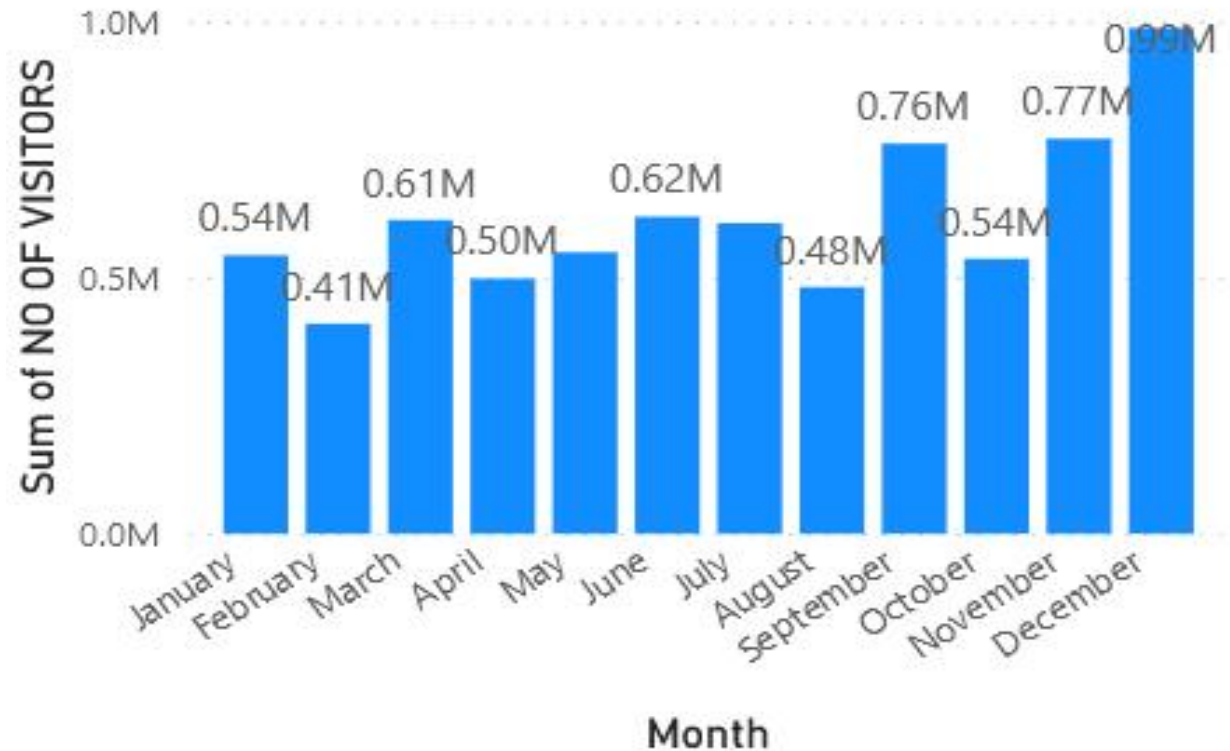


Fig:3.3 NO.OF VISITORS BY MONTH

- Here the bargraph represents the monthwise count of the visitors.
- The number of vstors in december month is higher.
- The number of visitors in march month is the lowest.
- The x axis represents the month and the y axis represents the sum of the number of visitors in the amusement park.

NO OF VISITORS by FAMILY

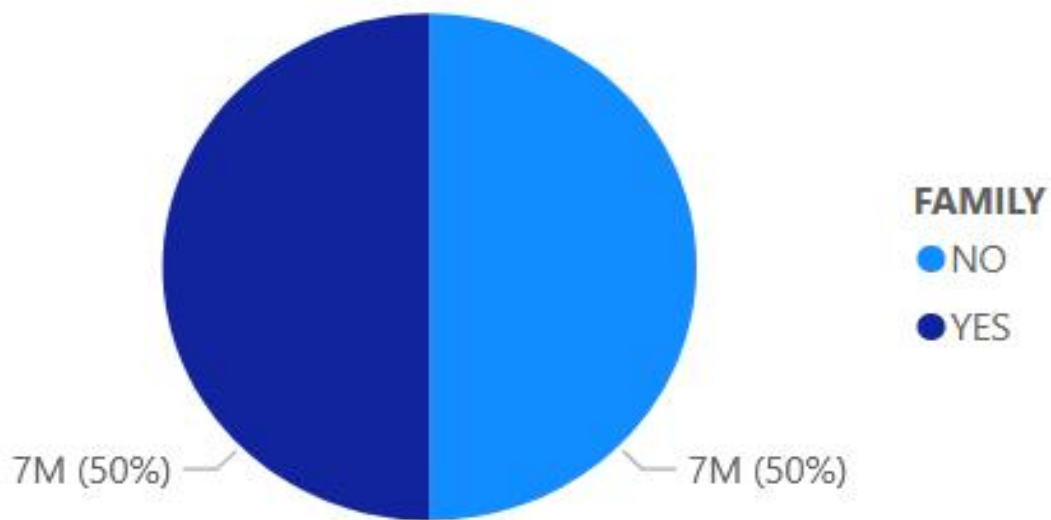


Fig:3.4 NO OF VISITORS BY FAMILY

- This pie chart represents the number of visitors by family.
- The count of the visitors by family is half of the total visitors in the amusement park.

NO OF VISITORS and Sum of AGE by Quarter

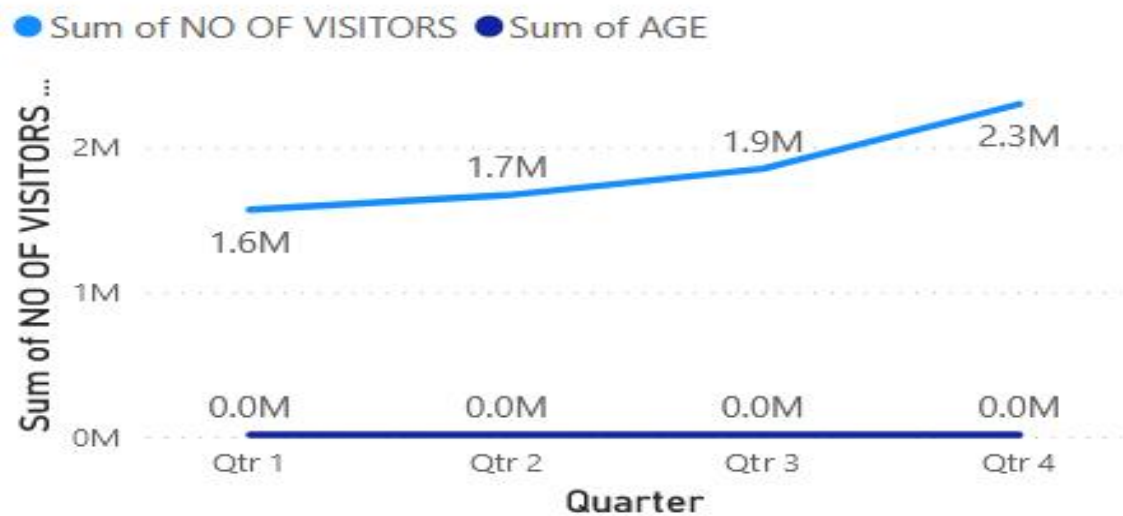


Fig:3.5 NO OF VISITORS AND SUM OF AGE

TOTAL AGE by FAMILY

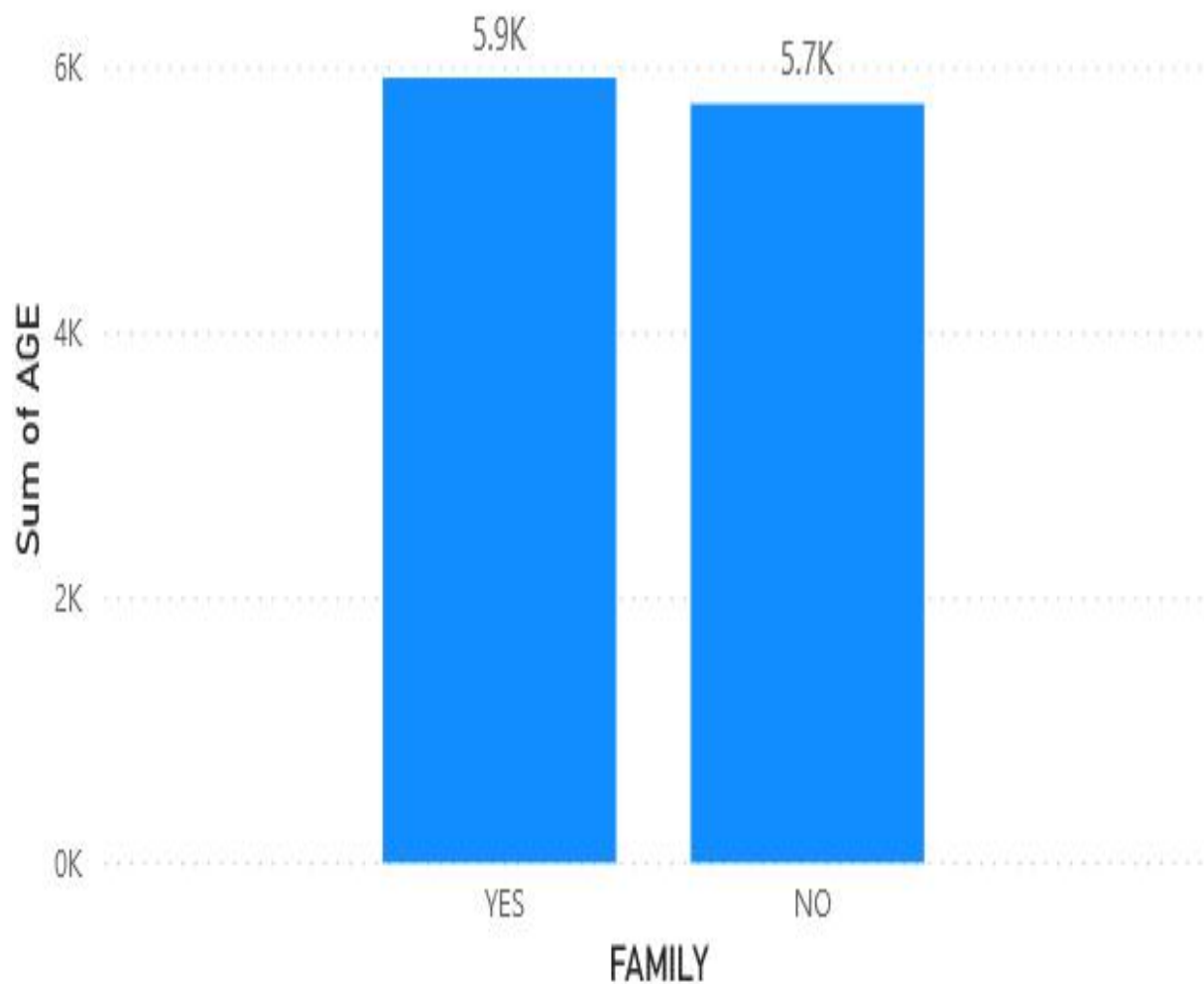


Fig:3.6 TOTAL AGE BY FAMILY

- The sum of the age of the visitors visiting the amusement park is taken.
- The family visitors count is higher.
- X axis represents the family visitors and Y axis represents the sum age of the family visitors.

AGE by GENDER

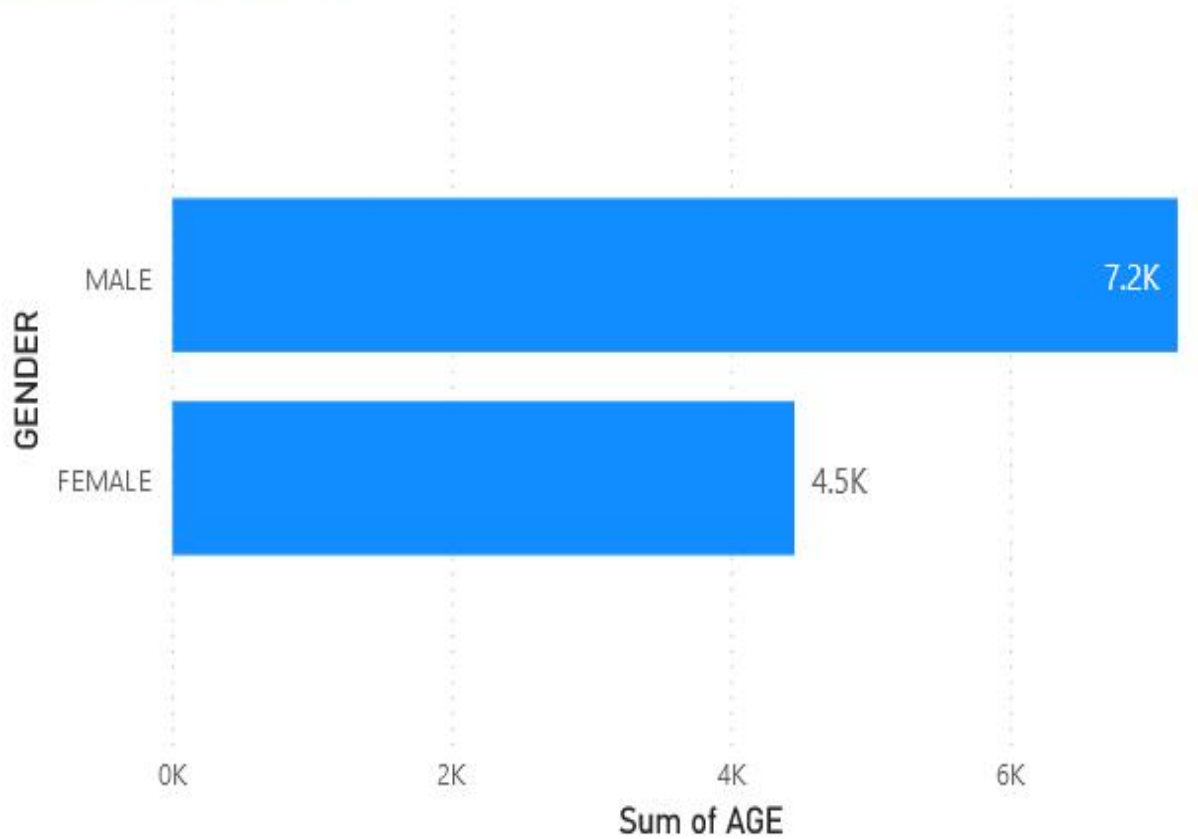
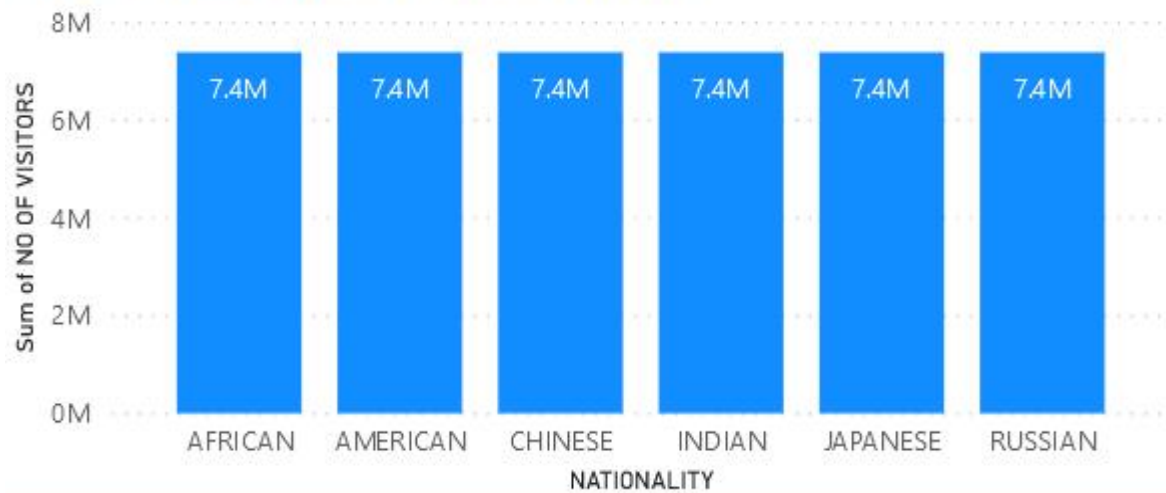


Fig:3.7 AGE BY GENDER

- The male visitors are higher than the female visitors.
- The sum of age of both male and female is given in the bar graph.
- The X axis represents the sum of age of the visitors and Y axis represents the gender of the visitors.

NO OF VISITORS by NATIONALITY



AGE by FAMILY

FAMILY ● NO ● YES

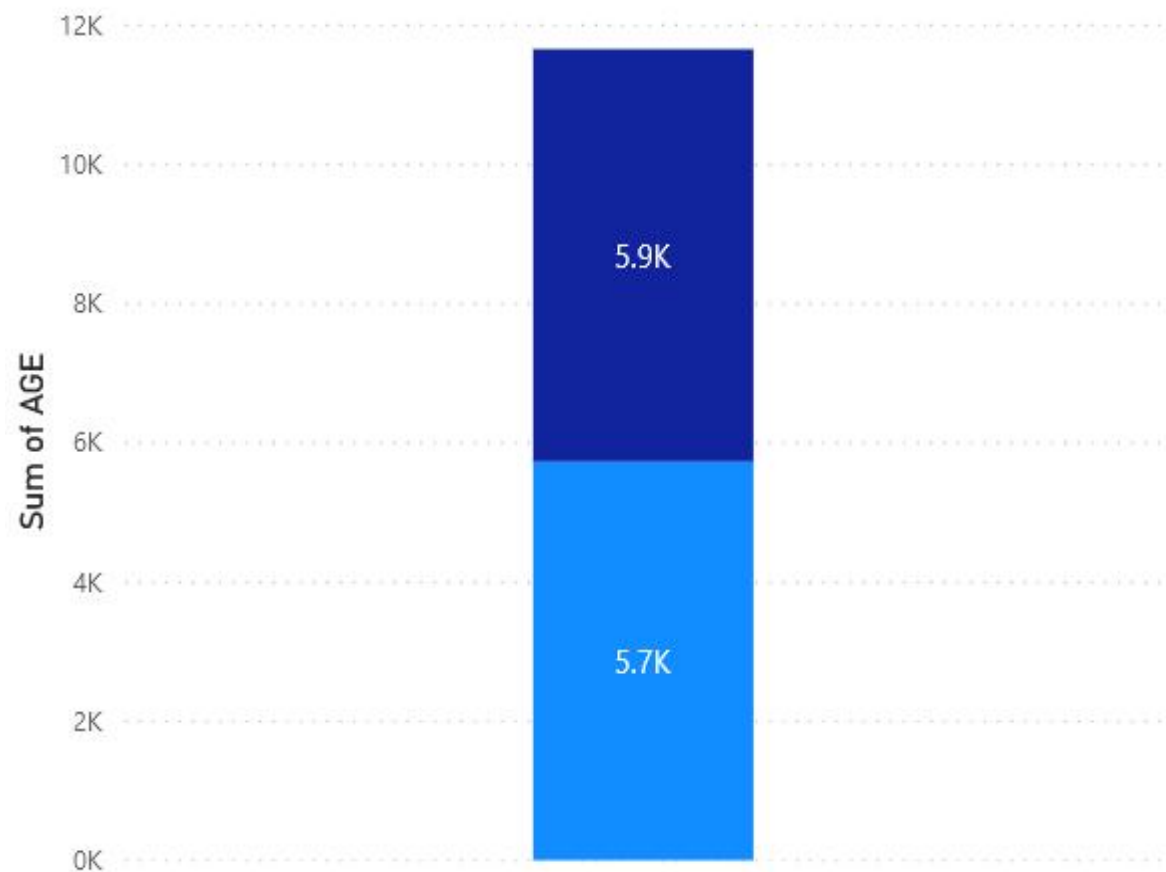
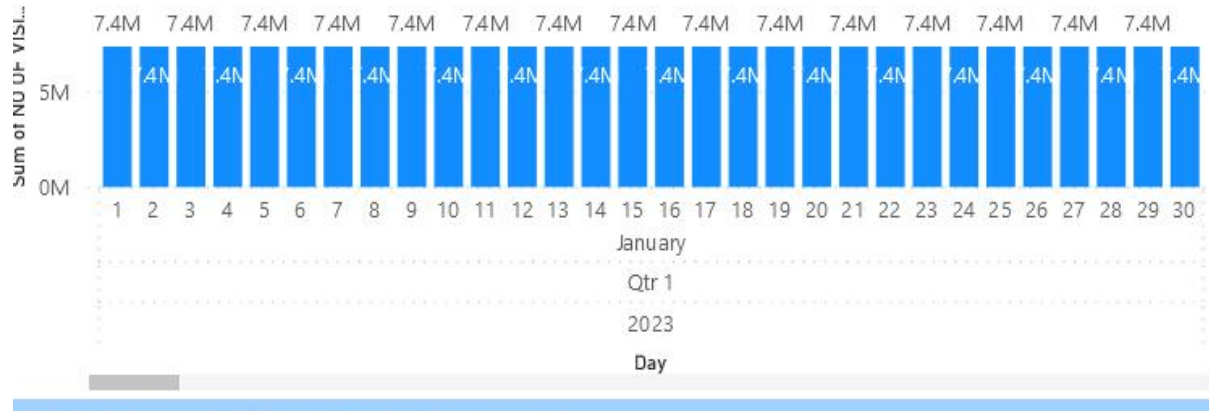


Fig:3.8 NO.OF VISITORS BY NATIONALITY AND AGE BY FAMILY

NO OF VISITORS by Year, Quarter, Month and Day



NO OF VISITORS by NATIONALITY

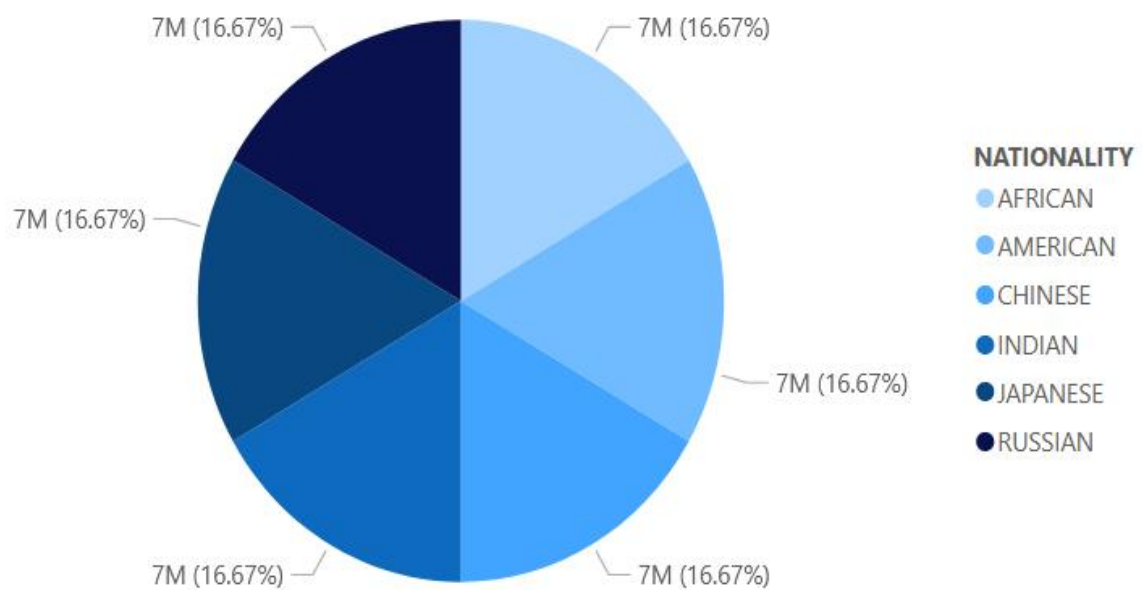


Fig:3.9 NO OF VISITORS BY NATIONALITY

- The number of visitors by nationality is given for 6 countries.
- The number of visitors for january month is given in day wise.
- The x axis represents the dates in january month and y axis represents the sum of number of visitors

CHAPTER – 4

RESULT & DISCUSSION

The performance of the Prediction is mostly focused on Prediction accuracy, Accuracy in each table and confusion matrix which shows the number of predictions of each table which can be compared to the instances of each table. From the data visualization it was observed that december month has the highest highest number of visitors and male visitors are higher than the female visitors. The total number of visitors in the amusement park is 7M total number of age is 12k.

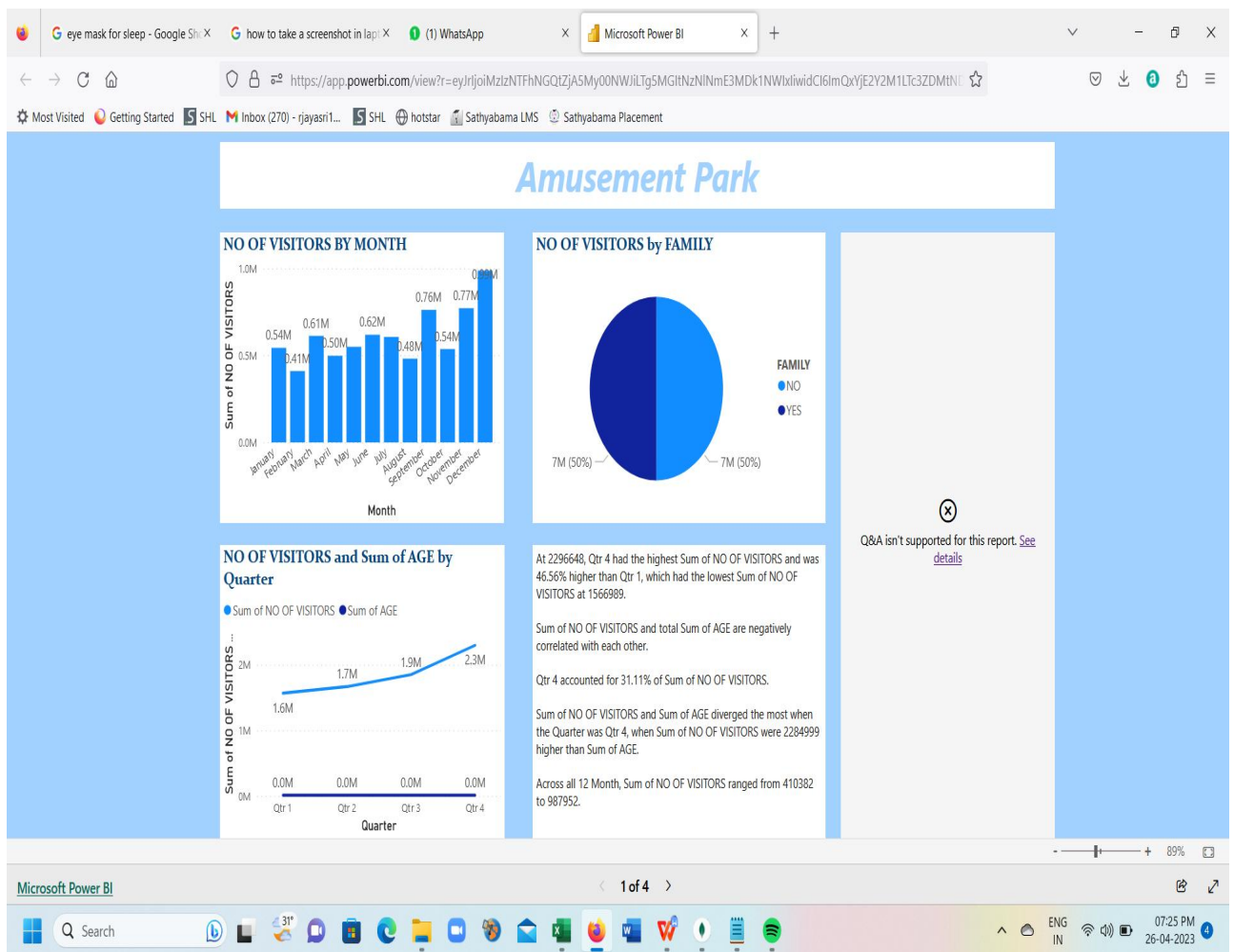


Fig:3.10 VISITORS IN AMUSEMENT PARK

>Ultimately, knowing your visitors and understanding their behaviour is an activity that you cannot ignore. Carry out a good, thorough study to properly analyse your visitors, and you will be able to position your offering in the best possible way that gets them to visit the amusement park.

Another way of understanding your visitors way of thinking is by controlling their actions. If you have a webpage that only consists of information on the amusement park offering, ensure there are at least two action possibilities. By having two 'calls of action', you are leading your visitors to distinct and clearly different outcomes. These different behaviour pathways will inform you what kind of visitors you are attracting. There will be the active visitors that want instant outcomes and the more thoughtful and guarded individuals.

CHAPTER – 5

CONCUSION & FURTHER WORK

5.1 CONCUSION

Most amusement parks try to attract the visitors to the park and make profit to the maximum extent by them. Once the visitor enter the amusement park, they are attracted and then definitely they visit the amusement park often. The advantage of forecasting is to know the number of employees should be appointed to meet the production level. The competition forecast plays a vital role.

5.2 FUTURE ENHANCEMENT

Analysts can identify behaviors at the macro level through semantic trajectory clustering views for group behavior dynamics, as well as at the micro level using trajectory traces and a novel visitor network analysis view. We demonstrate the efficacy of our framework through two case studies of simulated theme park visitors. We provide methodologies to link visitor movement data, communication data, and park infrastructure data. This combination of data sources enables a semantic analysis of *who*, *what*, *when*, and *where*, enabling analysts to explore visitor-visitor interactions and visitor-infrastructure interactions.

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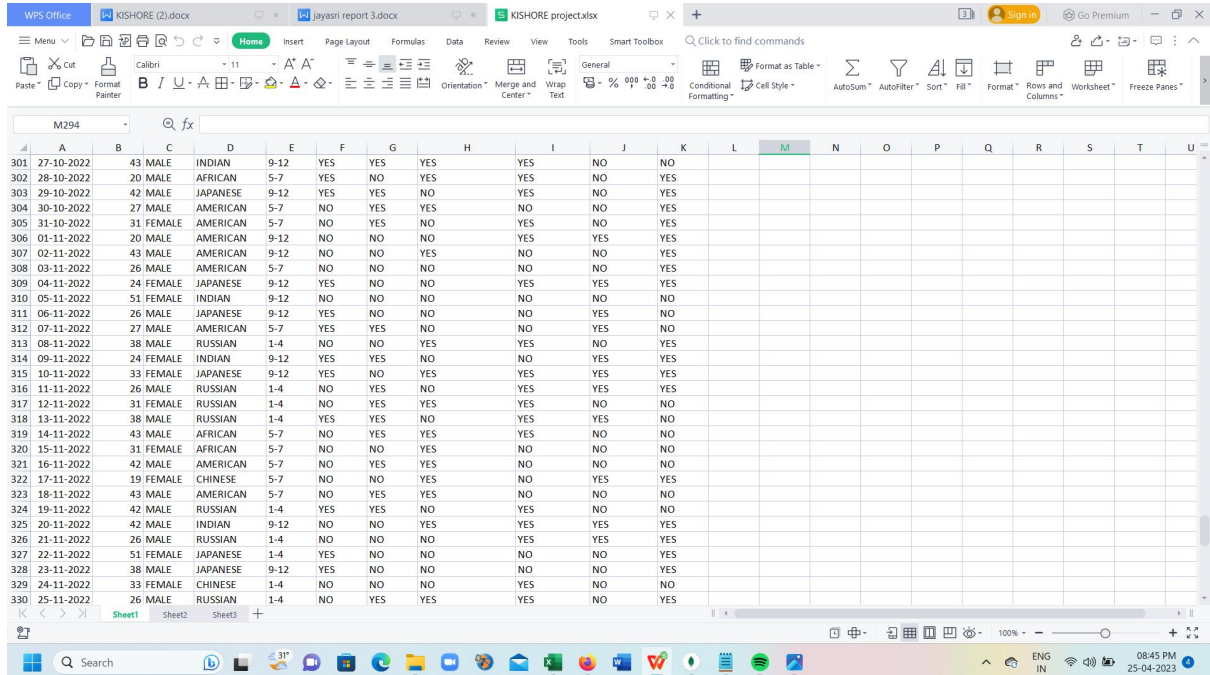
Expert Syst. Appl(2007)

- B.H. Eilouti

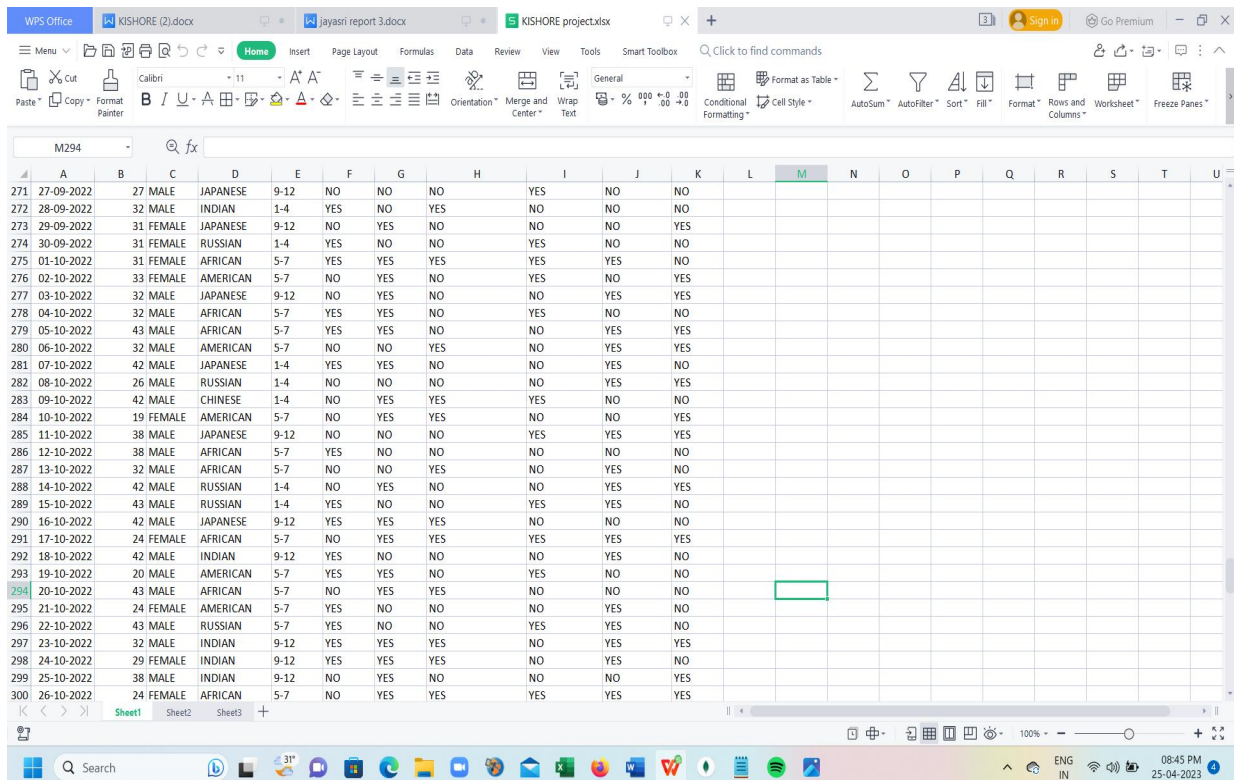
[Design knowledge recycling using precedent-based analysis and synthesis models](#)

APPENDIX

SCREENSHOTS OF DATA SET



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305	31-10-2022	31	FEMALE	AMERICAN	5-7	NO	YES	NO	YES	NO	YES										
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307	02-11-2022	43	MALE	AMERICAN	9-12	NO	NO	YES	NO	NO	YES										
308	03-11-2022	26	MALE	AMERICAN	5-7	NO	NO	NO	NO	NO	YES										
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
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124	03-05-2022	42	MALE	INDIAN	9-12	YES	YES	YES	YES	NO	NO										
125	04-05-2022	42	MALE	RUSSIAN	1-4	YES	YES	NO	YES	NO	NO										
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127	06-05-2022	24	FEMALE	AFRICAN	5-7	NO	YES	NO	NO	YES	NO										
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149	28-05-2022	24	FEMALE	JAPANESE	9-12	YES	NO	YES	NO	YES	YES										
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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
61	01-03-2022	42	MALE	AFRICAN	5-7	NO	YES	YES	NO	YES	NO										
62	02-03-2022	51	FEMALE	INDIAN	9-12	YES	YES	NO	NO	YES	NO										
63	03-03-2022	26	MALE	INDIAN	9-12	YES	NO	NO	NO	NO	YES										
64	04-03-2022	19	FEMALE	AMERICAN	5-7	YES	NO	YES	YES	NO	YES										
65	05-03-2022	29	MALE	AMERICAN	5-7	NO	YES	YES	NO	NO	YES										
66	06-03-2022	38	MALE	INDIAN	9-12	NO	YES	YES	YES	YES	NO										
67	07-03-2022	27	MALE	JAPANESE	9-12	YES	YES	YES	YES	NO	YES										
68	08-03-2022	20	MALE	CHINESE	1-4	YES	YES	NO	YES	NO	NO										
69	09-03-2022	42	MALE	JAPANESE	9-12	YES	NO	YES	NO	NO	NO										
70	10-03-2022	43	MALE	AFRICAN	5-7	YES	YES	NO	YES	YES	NO										
71	11-03-2022	33	FEMALE	CHINESE	5-7	NO	YES	NO	YES	YES	NO										
72	12-03-2022	20	MALE	RUSSIAN	1-4	YES	YES	NO	NO	YES	NO										
73	13-03-2022	32	MALE	AFRICAN	5-7	NO	YES	YES	YES	YES	NO										
74	14-03-2022	33	FEMALE	INDIAN	9-12	NO	NO	NO	YES	NO	NO										
75	15-03-2022	26	MALE	AFRICAN	5-7	NO	YES	NO	NO	NO	NO										
76	16-03-2022	19	FEMALE	CHINESE	5-7	YES	NO	YES	NO	NO	YES										
77	17-03-2022	29	MALE	JAPANESE	9-12	NO	YES	NO	YES	YES	YES										
78	18-03-2022	33	FEMALE	INDIAN	9-12	NO	YES	NO	YES	YES	NO										
79	19-03-2022	38	MALE	CHINESE	5-7	NO	NO	YES	YES	NO	YES										
80	20-03-2022	31	FEMALE	RUSSIAN	5-7	YES	NO	YES	YES	NO	YES										
81	21-03-2022	24	FEMALE	CHINESE	1-4	YES	NO	NO	NO	NO	NO										
82	22-03-2022	32	MALE	JAPANESE	9-12	YES	NO	NO	YES	NO	YES										
83	23-03-2022	20	MALE	RUSSIAN	1-4	YES	NO	YES	NO	NO	YES										
84	24-03-2022	19	FEMALE	RUSSIAN	1-4	YES	NO	YES	NO	NO	YES										
85	25-03-2022	51	FEMALE	RUSSIAN	5-7	YES	YES	YES	NO	YES	YES										
86	26-03-2022	32	MALE	JAPANESE	9-12	YES	YES	NO	NO	NO	YES										
87	27-03-2022	33	FEMALE	RUSSIAN	1-4	YES	NO	NO	YES	NO	YES										
88	28-03-2022	51	FEMALE	CHINESE	1-4	NO	NO	NO	YES	NO	NO										
89	29-03-2022	33	FEMALE	INDIAN	9-12	YES	YES	NO	NO	NO	YES										
90	30-03-2022	19	FEMALE	AFRICAN	5-7	YES	NO	YES	YES	NO	NO										

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
121	30-04-2022	27	MALE	RUSSIAN	1-4	YES	YES	NO	NO	YES	NO										
122	01-05-2022	27	MALE	AFRICAN	5-7	YES	YES	YES	YES	YES	YES										
123	02-05-2022	33	FEMALE	CHINESE	1-4	NO	NO	NO	YES	NO	NO										
124	03-05-2022	42	MALE	INDIAN	9-12	YES	YES	YES	YES	NO	NO										
125	04-05-2022	42	MALE	RUSSIAN	1-4	YES	YES	NO	YES	NO	NO										
126	05-05-2022	51	FEMALE	CHINESE	1-4	YES	NO	YES	YES	YES	NO										
127	06-05-2022	24	FEMALE	AFRICAN	5-7	NO	YES	NO	NO	YES	NO										
128	07-05-2022	24	FEMALE	INDIAN	9-12	NO	YES	YES	YES	NO	YES										
129	08-05-2022	27	MALE	JAPANESE	9-12	NO	NO	NO	YES	YES	YES										
130	09-05-2022	20	MALE	AMERICAN	9-12	NO	YES	YES	YES	YES	YES										
131	10-05-2022	29	MALE	AMERICAN	5-7	YES	YES	YES	YES	YES	YES										
132	11-05-2022	38	MALE	CHINESE	1-4	NO	NO	YES	YES	YES	YES										
133	12-05-2022	43	MALE	INDIAN	9-12	NO	YES	YES	YES	NO	YES										
134	13-05-2022	51	FEMALE	JAPANESE	9-12	NO	YES	YES	YES	NO	NO										
135	14-05-2022	42	MALE	CHINESE	1-4	NO	NO	YES	NO	YES	NO										
136	15-05-2022	27	MALE	RUSSIAN	1-4	YES	YES	YES	NO	NO	YES										
137	16-05-2022	32	MALE	AFRICAN	9-12	YES	YES	YES	NO	NO	YES										
138	17-05-2022	42	MALE	INDIAN	9-12	YES	YES	YES	YES	YES	NO										
139	18-05-2022	43	MALE	AMERICAN	5-7	YES	NO	YES	YES	NO	YES										
140	19-05-2022	26	MALE	CHINESE	5-7	NO	NO	YES	NO	NO	YES										
141	20-05-2022	43	MALE	INDIAN	9-12	YES	YES	YES	YES	NO	YES										
142	21-05-2022	24	FEMALE	INDIAN	9-12	NO	YES	YES	YES	NO	NO										
143	22-05-2022	19	FEMALE	RUSSIAN	1-4	YES	YES	YES	YES	NO	NO										
144	23-05-2022	51	FEMALE	RUSSIAN	1-4	YES	YES	YES	YES	YES	YES										
145	24-05-2022	33	FEMALE	RUSSIAN	1-4	NO	YES	NO	NO	NO	YES										
146	25-05-2022	31	FEMALE	INDIAN	9-12	YES	NO	YES	NO	YES	YES										
147	26-05-2022	33	FEMALE	INDIAN	9-12	YES	YES	NO	NO	YES	YES										
148	27-05-2022	42	MALE	CHINESE	1-4	YES	YES	NO	YES	YES	YES										
149	28-05-2022	24	FEMALE	JAPANESE	9-12	YES	NO	YES	NO	YES	YES										
150	29-05-2022	27	MALE	JAPANESE	9-12	YES	YES	YES	YES	NO	YES										

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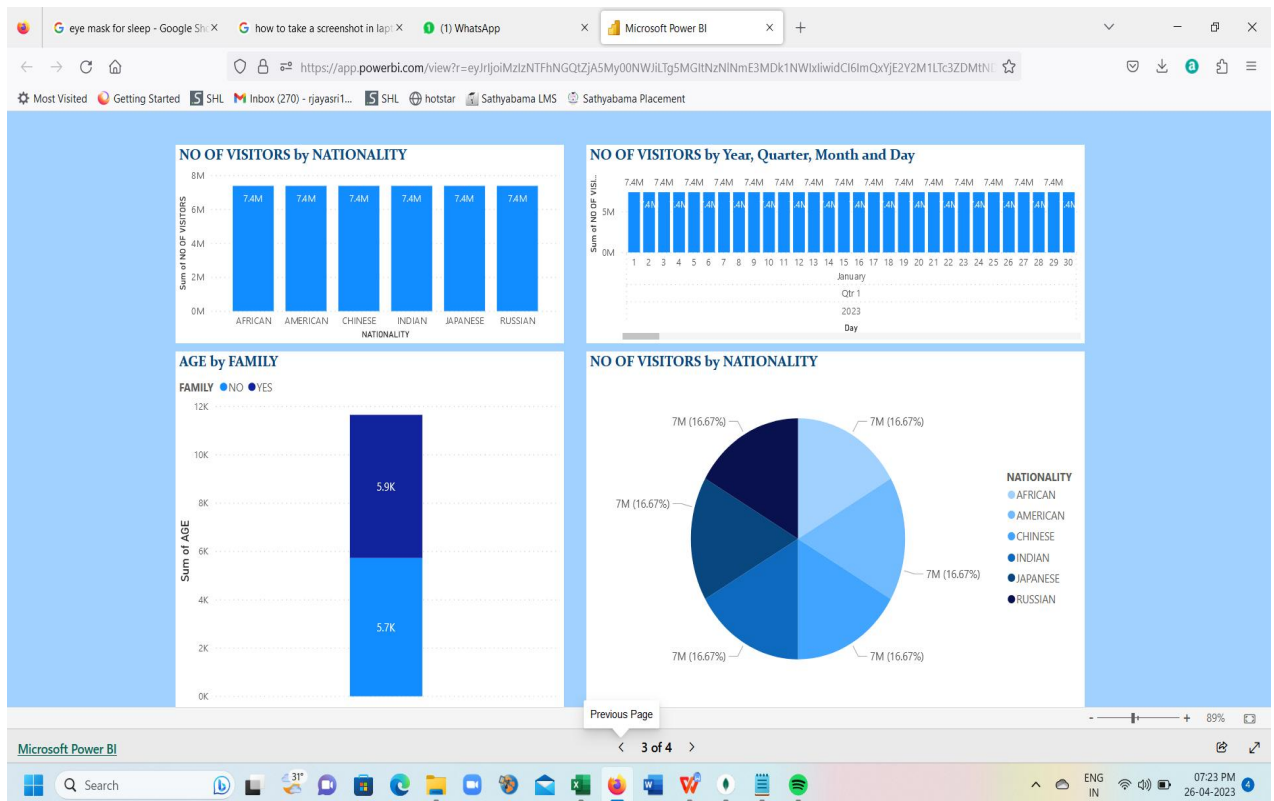
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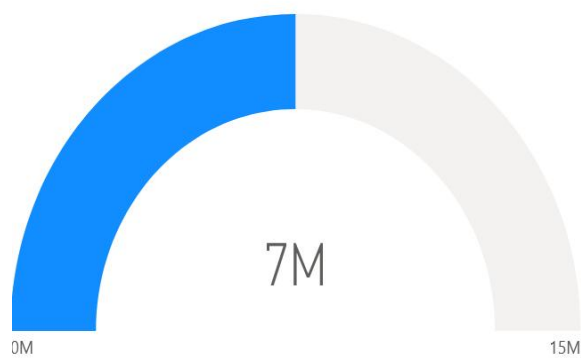
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241	28-08-2022	33	FEMALE	JAPANESE	9-12	NO	YES	YES	YES	YES	YES										
242	29-08-2022	20	MALE	INDIAN	1-4	NO	YES	NO	YES	NO	NO										
243	30-08-2022	51	FEMALE	AFRICAN	9-12	YES	NO	NO	YES	YES	YES										
244	31-08-2022	26	MALE	AMERICAN	5-7	YES	YES	YES	NO	NO	NO										
245	01-09-2022	31	FEMALE	RUSSIAN	5-7	YES	NO	YES	YES	YES	NO										
246	02-09-2022	26	MALE	CHINESE	1-4	YES	YES	NO	YES	YES	YES										
247	03-09-2022	19	FEMALE	JAPANESE	9-12	NO	NO	NO	YES	NO	NO										
248	04-09-2022	19	FEMALE	RUSSIAN	1-4	NO	YES	YES	YES	YES	NO										
249	05-09-2022	43	MALE	CHINESE	1-4	NO	YES	NO	NO	YES	YES										
250	06-09-2022	27	MALE	INDIAN	9-12	YES	YES	NO	YES	NO	NO										
251	07-09-2022	24	FEMALE	RUSSIAN	1-4	YES	NO	NO	YES	YES	NO										
252	08-09-2022	27	MALE	AMERICAN	5-7	NO	NO	NO	YES	NO	NO										
253	09-09-2022	38	MALE	AMERICAN	5-7	NO	YES	YES	NO	NO	NO										
254	10-09-2022	32	MALE	AMERICAN	5-7	YES	YES	YES	NO	YES	NO										
255	11-09-2022	42	MALE	AMERICAN	5-7	NO	NO	YES	NO	NO	YES										
256	12-09-2022	31	FEMALE	AMERICAN	5-7	YES	NO	YES	YES	NO	YES										
257	13-09-2022	29	MALE	AFRICAN	5-7	NO	YES	NO	YES	NO	NO										
258	14-09-2022	19	FEMALE	AMERICAN	5-7	YES	NO	YES	NO	YES	NO										
259	15-09-2022	29	MALE	AFRICAN	5-7	YES	NO	YES	NO	NO	YES										
260	16-09-2022	33	FEMALE	AFRICAN	9-12	YES	YES	YES	NO	YES	NO										
261	17-09-2022	32	MALE	AMERICAN	5-7	YES	YES	NO	YES	YES	NO										
262	18-09-2022	20	MALE	RUSSIAN	5-7	YES	NO	YES	YES	YES	YES										
263	19-09-2022	19	FEMALE	JAPANESE	9-12	YES	YES	NO	NO	YES	NO										
264	20-09-2022	38	MALE	RUSSIAN	5-7	YES	YES	NO	YES	YES	YES										
265	21-09-2022	51	FEMALE	JAPANESE	9-12	NO	YES	YES	YES	YES	YES										
266	22-09-2022	38	MALE	AMERICAN	5-7	YES	NO	NO	NO	NO	YES										
267	23-09-2022	51	FEMALE	CHINESE	1-4	NO	YES	YES	NO	NO	NO										
268	24-09-2022	38	MALE	INDIAN	1-4	NO	NO	NO	YES	NO	YES										
269	25-09-2022	27	MALE	RUSSIAN	1-4	NO	YES	NO	NO	YES	YES										
270	26-09-2022	29	MALE	INDIAN	9-12	NO	NO	YES	YES	YES	NO										

Sheet1 Sheet2 Sheet3

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NO OF VISITORS



TOTAL NO OF AGE

