

### BSD1323 STORYTELLING AND DATA VISUALIZATION GROUP PROJECT SEMESTER II 22/23

SUBJECT: BSD1323 ST VISUALIZATION	FORYTELLING AND DATA	<b>MARKS</b> : 90(30%)			
TOPIC: CHAPTER 3 to 0	TOPIC: CHAPTER 3 to CHAPTER 8				
GROUP 10	<b>DUE DATE</b> : 23 May - 25 June 2023				

### **GROUP PROJECT MEMBERS (ID, NAMES, SECTION)**

- 1. NURKHAIRUL IZZATI BINTI MOHD SALLEHAN (SD22005, 01G)
- 2. AMIRAH YASMIN BINTI ZAILANEE (SD22021, 01G)
- 3. SRI SHAMNEE SAI A/P RAJAH (SD22016, 01G)
- 4. MOHAMMAD BASHARIL AIMAN BIN MOHAMMAD BAKHTIAR (SD22051, 02G)

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### **Motivation of our Story**

Beyond merely looking attractive, taking proper care of our skin is crucial. Our skin is vital to our overall health since it is the biggest organ we have. It may take care of us if we take care of it. This is why having a well-planned skin care routine is so crucial. Daily skin care is something that is definitely worth your time and effort. We should realize that skin care is part of a healthy lifestyle. Doing skincare makes us feel fresh and energetic throughout the day.

Skin care regimes that emphasize washing, moisturizing, and treating specific conditions are generally focused on the sensitive parts on your face, neck, and chest. All this contributes to a happy, healthier you. It is a very well-known truth that improving our appearance will make us feel better. When we walk out into the world, we may look our best and present our best self by following a regular skin care routine. It goes without saying that prevention is preferable to treatment when it comes to skin care. Future invasive treatments can be avoided by taking steps like wearing sunscreen, cleaning your face every day, and using a decent moisturizer. Numerous avoidable issues might arise as a result of neglect. Making wise decisions throughout your life will result in attractive skin as you age. Making poor skin care decisions can have a long-lasting effect, just as making the correct decisions today might benefit you later.

Even though your skin is flawless and radiant right now, there is no assurance that it will remain that way in the future. This is due to the everyday loss of your skin cells. Without using a suitable skin care programme, the skin that is shown in the future may be dull and blemished. You may be familiar with those who splash some water on their face and call it good. That may work well for them. Everyone is different, and most individuals will require more effort to maintain healthy-looking skin. Also, it is crucial to determine your skin type if you are unsure of it.

In our project, we choose a skincare routine as our topic. As we all know, all of people had to take care of their skin especially in the face. So, everyone must at least have a basic skin care to begin with. Our objective is to identify the trend of skincare routine in our group. This will help us to know whether our group member have a good skin care routine or not. Moreover, we also wanted to emphasize to everyone that it is crucial to have a skin routine to everyone. Our project might educate some people about skin care.

For this project, there are 4 numerical variable which are product count, duration, count(responses), and product count. The categorical variables products, gender, brand, skin type and breakout. For geographic variable we recorded our location which is KK3 and KK4. For date and time variable, we have timestamp. For products and brand we prepared the data by making it more specific for each product.

### **Explanation of Storyline**

Our story begins with the introduction of our topic. We also mentioned that "Self care starts with skin care". This shows that skin care is the important thing to do in our life. Then our story line moves to geographical analysis of our project. Since the respondents are our groupmate, the location was recorded at KK3 and also KK4. Next, we explain about the categorical analysis. Here we got to know more about the respondents gender, skin type and also breakout in their skin.

Then we move on to the product description story point. Here we explain about all the products we use in our skin care routine. They are cleanser, toner, serum, essence, moisturizer, sunscreen, lip mask and micellar water. By looking at this story point, we can identify which product is highly used in their skin care routine by gender. The story moves to analyze product brands. There are two story points that visualize the brand that our respondents used in their skin care routine. We can move on to analysis by gender. Here we can analyze the number of skin care applied, number of products used and also the duration taken for skin care on average by gender. We wanted to see the skin care routine by gender to analyze which gender is doing skin care the most. The storyline continues with analysis by skin type. For this story point, we are using the treemaps to visualize the skin type which are normal, combination, oily, sensitive and dry to be analyzed with 3 categories which are number of skincare apply,number of product use and total duration of doing skincare. This will help us to know more about the skin type. We can analyze which skin type is mostly doing skin care.

Our story moves forward to the top 3 skin types by duration. Here it shows that combination, normal and oily skin is the top 3 skin types that took high duration for skin care. Then the story focuses on analysis of duration with apply count and product count. This story shows two visualizations. Here we analyzed the duration by apply count in dual combination visualization and duration by product count with line chart. The story continues with more details of analysis for duration by product count. We use scatter plot to prove the relationship between duration and product count. Furthermore, the story shows the top 5 skin types by gender. Here we can analyze the skin type according to gender. Moving on, we have some tips on skin care for students. This will help the student to take care of their skin with minimum effort. We also mention some importance of skin care in our story. This will make everyone understand that skin care is needed to have healthy skin. Lastly, we summarized our story by saying "Your skin is your canvas".

### **Details Analysis of each Story point**

# THE SKIN NERDS | Introduction | Geographical | Categorical analysis | Description | D

### Geographical Analysis

Based on the visualization, there's two places that are involved which are residential college 3 and 4. As we all know, residential college 4 is for male students while residential college 3 is for female students. In this visualization, we can see the average of duration and product count between two places. The residential college 3 has the higher number for average of duration and product count than residential college 4 because there were 3 female students and 1 male student only. We can also adjust the timestamp by using the slider to observe the date that we want.

### THE SKIN NERDS Introduction Geographical Gategorical analysis Droduct Description Descrip

### Categorical Analysis

### • Total Percentage of Skin Type

Throughout the 2 weeks of data collected and 56 times of data records, the donut graph proves that normal skin has a larger proportion than the other types and 35.71% of people have normal skin. Combination skin recorded 28.57% and the second higher percentages for skin type. Oily skin shows 23.21% from 56 of responses throughout 2 weeks. For sensitive skin, 5.36% were recorded followed by 7.14% for dry skin. According to the data, each participant had a different breakout over the 2 weeks that the data was gathered.

### Total Percentages of Breakout

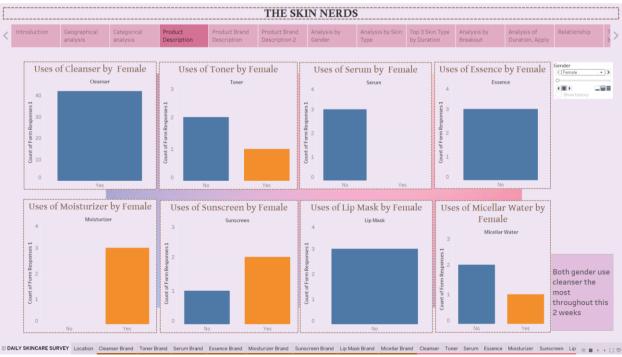
The pie chart demonstrates that, for 65% of respondents, there were no breakouts throughout the data collection while 37.50% answers yes. This shows that our respondents really took care of their skin because most of the time they did not have breakouts.

### • Total Percentage of Gender

This pie chart shows that out of 4 people in the respondents there are 75% female and 25% of male. This is because there was only one male and 3 females in our group as respondents.

### **Products** analysis





According to the bar chart, cleansers are the highest consumed of products for both genders on a daily basis throughout 2 weeks. This shows that our respondents know the importance of cleansing our face daily. For females, toner has been used 21 times and male did not utilize the toner. Next, 3 times female used the serum and it shows its not almost daily used and male almost daily used the serum for 12 times. For essence, the product is likewise little utilized by females and recorded only 8 times throughout 2 weeks and for male, this product is not used at all.

Moisturizer products were recorded 30 times for females and it can be said that this product is often used. For male only 1 time the product has been used. Sunscreen can also be mentioned that this item is used frequently by females but not frequently used by male. We should know that sunscreen is one of the important skin care products that protects us from UV light. But by looking at the data collected we can conclude that only females take the importance of sunscreen into consideration. Male should also know that we cannot skip sunscreen in our daily routine. For lip masks, only females were used but not too much and recorded only 6 times used. Finally, only females used micellar water but only 6 times.

## THE SKIN NERDS Introduction Geographical Categorical analysis Product Brand Description D

### **Product Brand Analysis**

### Combination Skin

From the pie chart, we can see that Aiken is the most cleanser brand followed by Cosmoderm, Simple, and Innisfree Bija. For the toner brand, there are no responses so that means there are people who do not use toner but Tonymoly is the higher brand followed by Simple and Cosrx. Next, for serum, there is only one product recorded, which is Cosmoderm. Same goes to essence brand, Cosrx is the only brand that was recorded throughout data collection.

### Dry Skin

From the pie chart, Cosmoderm is the most cleanser brand used followed by Innisfree Bija. For toner, there is one product used, which is Cosrx. Next, Cosmoderm is the only brand that used for serum and lastly no one used essence during dry skin.

### Normal Skin

When typical skin events occurred, Cosmoderm is the higher used brand for cleanser followed by Innisfree Bija and Aiken. For toner brands, most respondents did not use toner but Cosrx is the most highly used followed by Tonymoly. Same goes for serum, during normal skin mostly respondents not using serum but Skintific is the most highly used brand followed by Wardah. Lastly, there is only one brand used, which is Corsx.

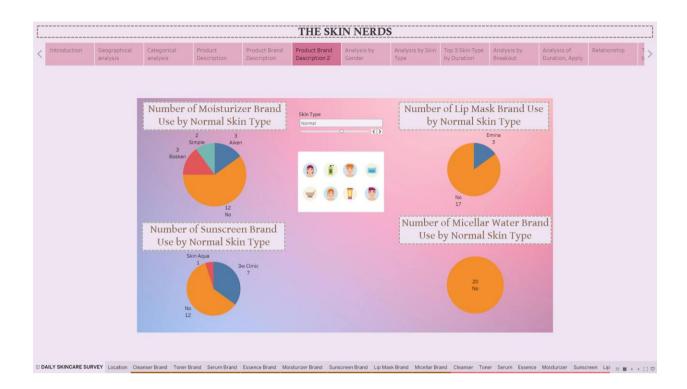
### Oily Skin

During oily skin occurred, the most used cleanser brand is Cosmoderm which is the highest from the pie chart followed by Innisfree Bija. Most respondents didn't use toner during oily skin but there is the brand that respondent used, which is Cosrx. For serum, there is only one brand that respondents used, which is Skintific. Lastly, there is no essence used in this skin type.

### • Sensitive Skin

Sensitive skin is the least responses form other skin types. From the pie chart, Cosmoderm is the most cleanser brand used during sensitive skin continued by Simple. For toner, Tonymoly is the only brand that uses toner. Next, there is no serum brand used in this skin type and lastly, The only brand that is utilized is Cosrx for essence brand.

### **Product Brands 2 Analysis**



### Combination Skin

For moisturizer brands, Rosken is the most used brand followed by Simple and Aiken. Next, 3w Clinic is the most highly used followed by Skin Aqua. For the lip mask brand, Emina is the only brand that is used during combination skin and lastly, Aiken also is the only brand used for micellar water.

### Dry Skin

According to the pie chart, Simple and Aiken are the only brands that are used for moisturizer. Same goes to sunscreen brands, Skin Aqua and 3w Clinic also are the only brands that are used. There is just one product utilized for lip masks, and that is Emina. There is no micellar water used in this type of skin.

### Normal Skin

Most of the respondents didn't use moisturizer but some of the respondents still used moisturizer when they have normal skin, which is fromRosken, Simple, and Aiken brand. Same goes to sunscreen, mostly respondents didn't use it. However, several respondents continued to use

sunscreen which is from 3w clinic and Skin Aqua brands. For lip mask, there is only one brand that respondents used which is Emina.

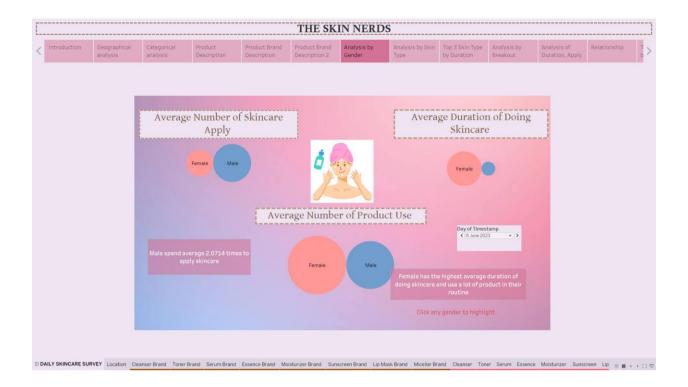
### Oily Skin

The brand of moisturizer most frequently used when oily skin occurs is Aiken, which is higher on the pie chart and is followed by Simple. For sunscreen, 3w Clinic and Skin Aqua is the only brand that respondents used but mostly they didn't use it. Most respondents didn't use lip masks on their oily skin, but there was one brand they did use: Emina. Last but not least, no micellar water was applied when normal skin occurrences happened.

### Sensitive Skin

The least reactions come from sensitive skin types. According to the pie chart, Simple is followed by Rosken as the most popular brand of moisturizer for sensitive skin. For sunscreen, 3w Clinic and Skin Aqua is the only brand that respondents used. Lastly, no serum and micellar water brand is utilized when sensitive skin.

### Analysis by Gender



In this visualization, we are using the packed bubbles to visualize gender. We analyzed it on average since our male respondent is not equal to female respondents. In this story point, we can click on any gender to highlight the visualization. We also can see the visualization by day using the legend. For the number of skincare apply, male has the higher number of average apply count than female which is 2 at June 6. Here we can break the stereotype that only females apply skin care products. We should understand that skin care is for everyone without looking at the gender. Everyone has the right to look after their skin. This data shows that our male respondent is really taking care of his skin. Furthermore, for total duration of doing skincare and number of products use, female has the higher number of average duration and product count than male which is 11.67 and 3.333 at June 6 respectively. This is because, female tends to has more products so they will needs more duration to apply the skincare.

### Analysis by Skin Type



We visualized in percent of total for all categories. Looking at the duration of skin care, combination skin type takes too much of time which is 34.99%. This is because combination skin means a combination of dry and oily skin. When we have both skin types at a time, we need to pay more attention towards it. So our respondents also take more time when they have a combination skin type. When our respondents have dry skin they spend very less time compared to others which is only 6.55%. This is because when we have dry skin, our skin tends to feel more irritated and have more dry patches. At this time we will prefer not to do much skin care, afraid that it may cause anything bad.

For percentage of product, combination skin recorded the highest which is 35.03%. This shows that when the respondents have combination skin they tend to apply more product compared to other types of skin. Meanwhile, sensitive skin type recorded the lowest percentage of products which is 5.65%. This is because when we have sensitive skin, our skin will react to any active ingredients. So at this time we should reduce using products that have active ingredients such as niacinamide, salicylic, vitamin c and so on. For percentage of skin care applied, normal skin type is the highest with 32.99%. This proves that when we have a normal skin type, we tend to apply skin care products many times because at that time our skin will not react to any product. So we can use the products we want to apply when we have normal skin. But on the other side dry skin is the lowest in percentage of skin care applied. This is because we ignore applying skin care products on our face when we have dry skin.

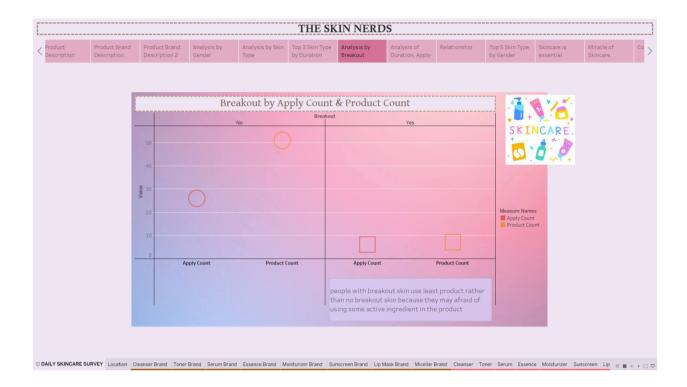
THE SKIN NERDS

Analysis by Product Brand Description 2 Analysis by Gender Type Skin Type by Duration Analysis by Gender Skin Type Skin Ty

Top 3 Skin Type by Duration

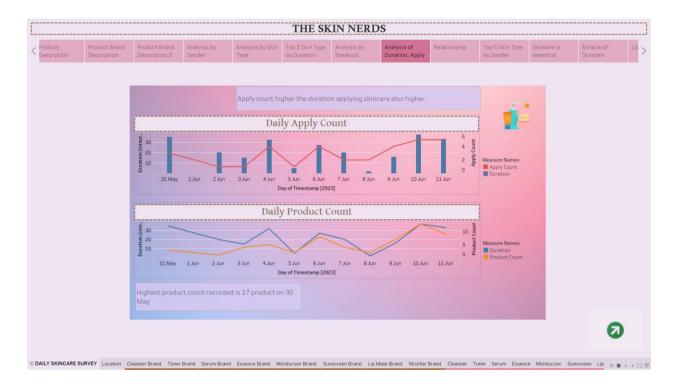
This visualization shows that in these three, combination skin is the highest because it recorded 267 minutes. The next is normal skin with 242 minutes and lastly is oily skin with 137 minutes. By looking at this visualization we can know that our respondents spend more time in skin care when they have combination, normal and also oily skin. They give more attention toward these skin types because they really want to take care of their skin. So they know how to arrange time for themselves to do skin care routine.

### Analysis by Breakout



Moreover, we can also see analysis by breakout in this side-by-side visualization. Here we can see that apply count and product count when we have breakout is lower than when we have breakout. This shows that when we have a breakout, we are always careful about it. This is because we do not want it to be bigger and get worse. So try to avoid applying skin care products when we have a breakout. Some ingredients in the skin care product will make our breakout react towards it. So it is better to avoid doing skin care when we have a breakout.

Analysis of Duration with Apply count and Product count



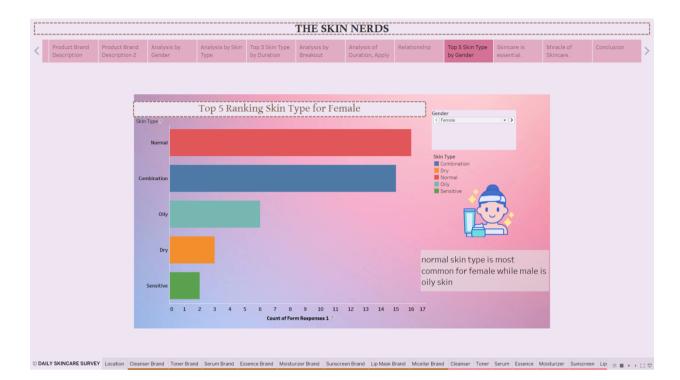
Next is analysis of duration with apply count and product count. This bar chart shows the sum of duration and apply count data. The data were gathered for 2 weeks. The data started to be collected from May 29 until June 11. The graph shows a rise and a drop trends in both days duration and days of apply count. The highest recorded data is on May 30. During that day, the duration recorded is 102 and apply count is 11 times. The duration by apply count shows that when the apply count increases the duration also increases. This means that the more we do skin care the more the duration will be.

Other than that, the second visualization shows duration by product count. Overall, we can analyze that when the product count increases, the duration also increases. But on May 30, we can see that when the product count increases the duration is decreasing. This is because sometimes when we want to apply many products we will not have the time to do it. So we tend to do is fastly so that we can finish it on time. Since our respondents are students, we can say that they need to finish their skin care routine in the morning on time because they need to rush to their class.

### Relationship between Duration and Product count



The next story point is about the relationship between duration and product count. This proves that the duration and product count have a positive relationship. By looking at this story point, we can also see that most of the data are below 20 min. This shows that our respondents do not take too much time to do their skin care routine. This is because as a student they are busy completing their assignment and also focus on their study more. But they spend enough time doing their skin care. This shows that they do care about their skin and they are taking efforts for it.



Top 5 Ranking for Skin Type by Gender.

We also can see the top 5 rankings for skin type by gender. When we look at females, the first top skin type is normal and the last skin type in the ranking is sensitive. For male the first top skin is oily and combination, dry, and sensitive are the last in the ranking.

### Skin care is Essential



This storypoint shows some tips for students. First and foremost, we should wash our face twice a day. Use a face-specific product to gently wash your face. You should select a cleanser without alcohol if you have dry skin, and an oil-free cleanser if you have oily skin. Then, give it a warm water rinse. Second, moisturizing is also important. Even if you have oily skin, moisturizer should be used after every facial wash. If you have skin like this, use a gel or oil-free product. Using SPF daily is the key to skin care. We should not avoid applying SPF to our skin. Even if your moisturizer has a sunscreen, you still need a sunscreen separately, even if it's cloudy. Pick one with at least an SPF of 30 and broad-spectrum protection. Other than that getting enough sleep is also equally important to take care of yourself. This is because we need at least 8 hours of sleep to have a fresh face in the morning. So do not neglect to get enough sleep. Last but not the least, eat a healthy diet to take care of your skin. Even though you apply many products to your skin, you still need to take care of your diet to achieve healthy skin. This is because it helps to take care of your body internally.

### Miracle of Skin Care



This story point explains about the importance of skin care. Firstly, skin care helps to improve skin health. Because you shed skin cells continuously throughout the day, it's critical to maintain healthy, radiant skin. An efficient regimen may repair wrinkles, prevent acne, and keep your skin looking great. Moreover, skin care helps to prevent our skin problems. It helps to prevent problems like acne, wrinkles, pigmentation and so on. It is simpler and less expensive to prevent skin issues than to attempt to cure them afterwards. Next, skin care also reduces our stress. Doing skin care is a way of relaxing yourself. This is because when we do skin care we feel good. So indirectly it helps to de-stress us. Lastly, it also increases our confidence. You will feel better about yourself and be more confident when your skin looks healthier.

### Conclusion

In this project we get to analyze more details about skin care. We should always remember that skin care is the main key in self care. We also know that male are also doing skin care equally to females. A skin care routine may sound like high maintenance, in reality, the steps for healthy skin are not only necessary, they're easy to implement too. Regular skin care will help you look and feel your best all year long by improving the health of your skin and protecting it from the damaging effects of winter. Healthy practices in your 20s and 30s help strengthen and prepare your skin for the consequences of aging down the road. Good skin care is necessary at any age. In your 20s and 30s, your skin produces a lot of collagen and elastin. You'll use a cleanser and a moisturizer with SPF every day.

Your skin is susceptible to many variables, and as your biggest organ and first line of defense against disease, it needs to be safeguarded. You should consider your surroundings and general health, such as nutrition, stress, and exercise, while thinking about skin care. But ultimately, a skin care regimen that includes a cleanser and a moisturizer may be quite effective. Also, keep in mind that you may change up your skin care routine at any time—you don't have to wait for the leaves to change color. It is quite reasonable to modify your routine in line with any changes to your skin that may occur owing to the environment, hormones, or other factors. Remember that you should always wash your face after doing out or working up a sweat, regardless of the time of day, since perspiration can clog pores and aggravate acne.



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### **GROUP PROJECT: MARKING SCHEME**

CLO	Description	PLO mapping	Percentage	Marks
	Demonstrate the data	PLO2: Cognitive Skills and Functional	10%	30
CLO2	visualization skill using an	work skills with focus on Numeracy skills		
	effective storytelling.	C3: Application		

LEVEL OF ACHIEVEMENT							
1	2	3	4	5			
Inadequate	Emerging	Developing	Good	Excellent			

QUES.	ELEMENTS	MARKS	LEVEL OF ACHIEVEMENT
1&2	<ul> <li>At least 2 weeks daily data from all members.</li> <li>At least 1 Date data type in the dimension shelf.</li> <li>At least 2 Categorical/qualitative data types in the dimension shelf.</li> <li>At least 1 Geographic data type in the dimension shelf.</li> <li>At least 3 Quantitative data types in the measure shelf.</li> </ul>	5	

3	<ul> <li>A catchy title and a clear storyline.</li> <li>At least 7 story points.</li> <li>Combination of text, image, worksheets, and dashboards.</li> <li>Combination of several types of visualization from each data field types.</li> <li>Interactive visualizations (include filters and animation).</li> </ul>	5					
	TOTAL (10)						

	CLO2 RUBRICS OF QUESTION 4								
			LEVEL OF	ACHIEVEMENT			WEIG	SC	
CRITERIA	0 Non- existent	1 Inadequate	2 Emerging	3 Developing	4 Good	5 Excellent	WEIGHTAGE	SCORE	
Motivation of your story	No motivation of the story provided.	Very little motivation of the story provided.	Motivation of the story provided but missing all major points.	Motivation of the story provided but unclear.	Clear and good motivation of the story provided.	Very clear and excellent motivation of the story provided.	0.5		
Detail explanation of the storyline	Failed to explain the storyline.	Not efficiently, effectively, and accurately explain the storyline.	Partly accurate, but not effectively explain the storyline.	Effectively explain the storyline but not accurate.	Accurately and effectively but not efficiently explain the storyline.	Accurately effectively, and efficiently explain the storyline.	1		
Detail analysation of each story point	Failed to analyse the story points.	Not efficiently, effectively, and accurately analyse the story points.	Partly accurate, but not effectively analyse the story points.	Effectively analyse the story points.	Accurately and effectively but not efficiently analyse the story points.	Accurately effectively, and efficiently analyse each story point.	2		
Concluding remark	No concluding remark provided.	Very little concluding remark provided and inaccurate.	Concluding remark provided but unclear and inaccurate.	Concluding remark provided but partly inaccurate.	Clear and good concluding remark provided.	Very clear and excellent concluding remark provided.	0.5		

|--|

CLO	Description	PLO mapping	Percentage	Marks
	Display a powerful data visualization,	PLO3: Functional work skills with	10%	30
CLO3	report, dashboard or stories in solving	focus on Practical, and Digital		
CLO3	various applications using	skills		
	appropriate software.	P4: Mechanism		

	LEVEL OF ACHIEVEMENT							
CRITERIA	0	1 Inadequate	2 Emerging	3 Developing	4 Good	5 Excellent	WEIGHTAGE	SCORE
Theory/ Knowledge on data visualizatio n and dashboard	No theoretical knowledge on data visualization and dashboard observed.	Very little knowledge on data visualization and dashboard observed or some information is incorrect.	Some knowledge or information observed on data visualization and dashboard but missing all major points.	Some knowledge or information observed on data visualization and dashboard but still missing some major points.	Good knowledge on data visualization and dashboard observed, missing some minor points.	Excellent knowledge on data visualization and dashboard observed; provides all necessary background principles.	1	
Techniques on Story & Data Validation	Failed to create a story.	Inappropriate techniques on story are demonstrated.	Partly correct techniques on story are demonstrated with partly valid data.	Correct techniques on story are demonstrate with partly valid data.	Good techniques on story are demonstrate with valid but not completely accurate data.	Competent techniques on story are demonstrated with valid and accurate data.	2	
Efficiency/ Assembly/ Tidiness	Failed to demonstrate the given task.	Not efficiently, effectively, and neatly demonstrated the given task.	Partly efficient, but not effectively and neatly demonstrated the given task.	Efficiently, but not effectively and neatly demonstrated the given task.	Efficiently and effectively but not neatly demonstrated the given task.	Efficiently, effectively, and neatly demonstrated the given task.	1	

CLO	Description		PLO ma	PLO mapping			Percent	Marks	
CLO4	Work collaboratively as part of a team to solve given problem through group discussion and PLO4: Functional work skills with focus Interpersonal skills A3: Valuing				is on 5%		15		
The stor	create any	Lack of story points / zero readability of the result. Poor originality.	Partly complete the story points.	Story points are presented but at low readability. Reader has to guess some of the missing information. Less originality.	Clear and neat presentation of story points. All required results are presented. Readability. Complete with labels, title, axes, etc.	presestory requil are p High r Very	clear and neat entation of points. All red results resented. readability. complete abels, title, es, etc.	1	
Results (interactives)	visualization	Lack of interactive data visualization and story points.	Very minimal interactive data visualization and story points are shown.	Barely interactive data visualization and story points are shown.	Clear interactive data visualization and story points are shown.	intera visu and st	dighly active data alization cory points shown.	1	
	,	,		•	,		TOTAL		30

		WEIG	SCC				
CRITERIA	1 Very Weak	2 Weak	3 Fair	4 Good	5 Very Good	HTAGE	)RE

Foster Good Relationship	No clear evidence of ability to foster good relationships and work together effectively with other group members towards goal achievement.	Able to foster relationship and work together with other group members towards goal achievement but with limited effect and require improvements.	Able to foster relationship and work together with other group members towards goal achievement with some effect(s) and require minor improvements.	Able to foster good relationship and work together with other group members towards goal achievement.	High ability to foster good relationship and work together effectively with other group members towards goal achievement.	1	
Alternate Roles	No clear evidence of ability to assume alternate roles as a group leader and group members demonstrated in practice.	Attempt to demonstrate in practice the ability to alternate roles as a group leader and group members but with limited effect and require improvements.	Able to demonstrate in practice the ability to assume alternate roles as a group leader and group members with some effect(s) and require minor improvements.	Able to demonstrate in practice the ability to assume alternate roles as a group leader and a group member to achieve the same goal.	Show clear evidence to assume alternate roles as a group leader and a group member demonstrated in practice.	1	
Respect and accept opinion	Not able to respect and accept opinion of others that leads to conflicts	Limited respect and acceptance of others' opinions in achievement group's objectives	Able to respect and accept opinion of others in achieving group's objectives	Able to well respect and accept opinion of others in achieving group's objectives	Able to very well respect and accept opinion of others in achieving group's objectives	1	
				TOTAL (15	5)		

<sup>\*</sup>Note: A self and peer review questions will be given to each of the student to assess their group member and their teamwork and the outcome will assist lecturer to assess the CLO4 rubric.

CLO	Description	PLO mapping	Percentage	Marks
	Demonstrate an active	PLO5: Functional work skills with focus on	5%	15
CLO5	communication through group	communication skills		
	discussion and presentation.	A3: Valuing		

	LEVEL OF COMPETENCY						SC
CRITERIA	1	2	3	4	5	WEIGHTAGE	SCORE
	Very Weak	Weak	Fair	Good	Very Good	GE C	
Clear delivery of ideas	Not able to deliver ideas clearly and require major improvements	Able to deliver ideas and require further improvements	Able to deliver ideas fairly clearly and require minor improvements	Able to deliver ideas clearly	Able to deliver ideas with great clarity	3/5	
Confident delivery of ideas	Not able to deliver ideas confidently	Able to deliver ideas with limited confidence and require further improvements.	Able to deliver ideas fairly confidently and require minor improvements	Able to deliver ideas confidently	Able to deliver ideas with great confidence	3/5	
Effective and articulate delivery of ideas	Not able to deliver ideas effectively	Able to deliver ideas with limited effect and require further improvements	Able to deliver ideas fairly effectively and require minor improvements	Able to deliver ideas effectively and articulately	Ability to deliver ideas with great effect and articulate	3/5	
Understand and respond to questions	Not able to understand and respond to a question	Able to understand and answer questions but not able to accurately answer the question	Able to understand and answer questions satisfactorily	Able to respond to questions well	Able to fully understand and respond to questions very well	3/5	

Adapt delivery to audience level	Not able to deliver appropriately to the audience level	Able to deliver ideas with limited appropriateness to the target audience and require further improvements.	Able to deliver ideas appropriately to the target audience satisfactorily	Able to deliver ideas appropriately to the target audience well	Able to fully deliver ideas appropriately very well	3/5	
				TOTAL (15	)		