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PROJECT BACKGROUND

- •This project is about THE TITANIC SHIP
- •The Titanic is about a ship that conveyed passengers onboard whose personal details are stored in the database.
- •This ship conveying passengers from different works of life, gender and family background was wrecked leaving many dead and few survivors.

The objective of the project is to extract specific data sets using SQL and visualizing them using Power BI to provide insights and recommendations.





AGE

LENGTH OF TIME
A PERSON
HAS LIVED



PORT of EMBARKATION

FROM WHICH THE
SHIP DEPARTS OR
PASSENGER
BOARDS THE SHIP.



UNIQUE IDENTITY
OF THE PASSENGER

Ž Σ Σ

 ∞





FARE PAID

THE TICKET PRICE



CABIN

IS A CLASS OF
ACCOMODATION ON
A PASSENGER SHIP



NAME

IS A COLLECTION OF DATA PERTAINNING TO AN INDIVDUAL TRAVELLER OR GROUP

2023

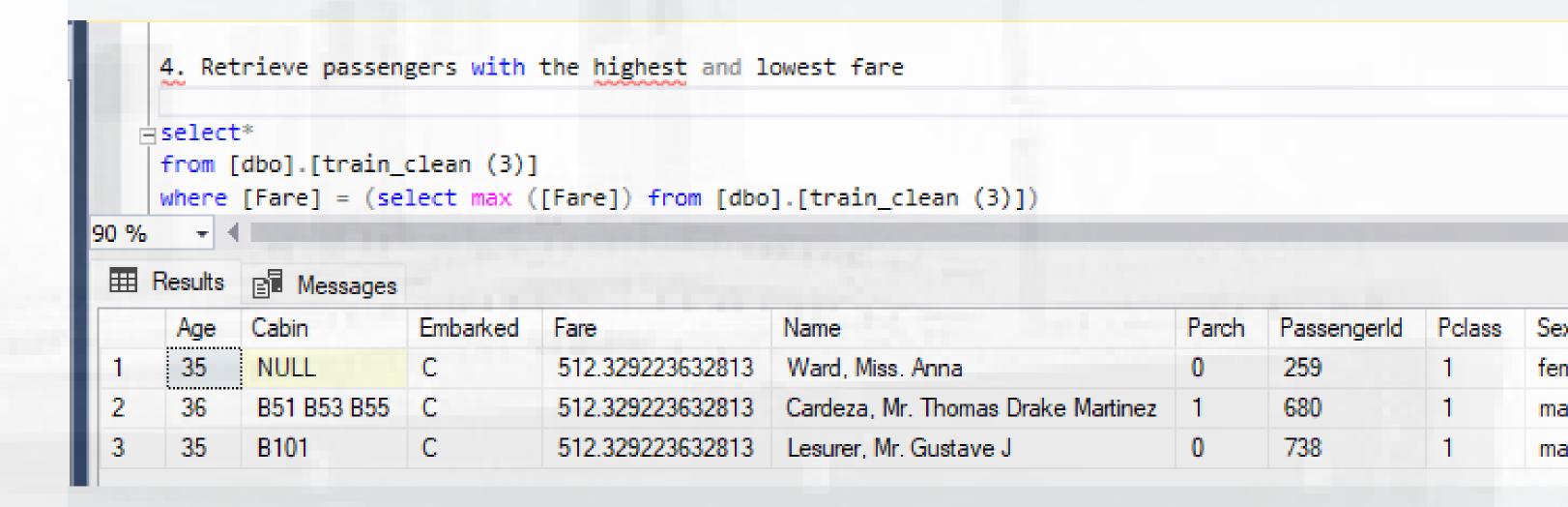
```
1. Calculate the average age of passengers who survived and those who did not
    iselect AVG([Age]) AS 'Avg age of survivors of not',[Survived]
     from[dbo].[train_clean (3)]
     group by[Survived]
90 %
 Results Messages
      Avg age of survivors of not
                             Survived
      30.2495446265938
      28.1540058479149
```

```
2. Find the top 5 most common titles (e.g., Mr., Mrs., Miss) among the passengers
   iselect top 5 ([Title]), count ([PassengerId]) AS 'most common title'
     from[dbo].[train_clean (3)]
     group by[Title]
     order by count ([PassengerId])DESC
90 %
 ■ Results
           Messages
      Title
              most common title
              525
      Mr
              185
      Miss
              128
      Mrs
              40
      Master
 5
      Dr
```

```
    Calculate the average fare paid by passengers in each passenger class (Pclass)

   ighthapproximate in items is a select AVG ([Fare]) AS 'AVG fare paid by pax', [Pclass]
     from[dbo].[train_clean (3)]
     group by[Pclass]
     order by [Pclass] DESC
90 %
 AVG fare paid by pax
                          Pclass
       13.6755502102574
       20.6621831810993
       84.154687528257
```

A compilation of passengers with the highest fare.



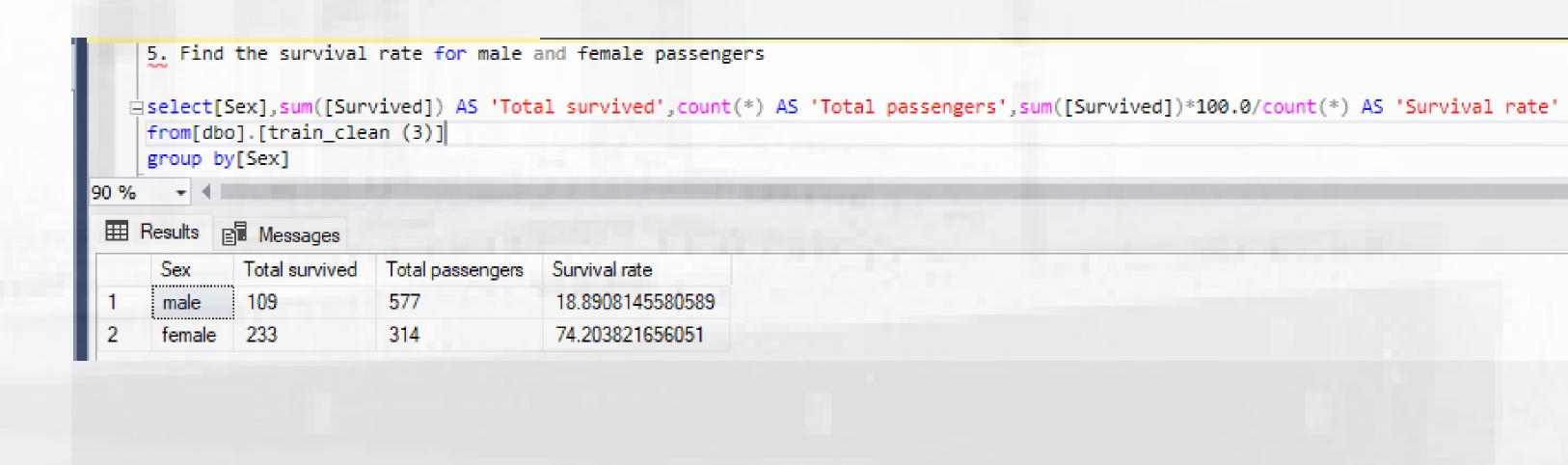
A compilation of passengers with the lowest fare.

```
4. Retrieve passengers with the highest and lowest fare
    ⊨select*
     from [dbo].[train_clean (3)]
     where [Fare] = (select min ([Fare]) from [dbo].[train clean (3)])
90 %

    ⊞ Results

    Messages

                                                                              Passengerld
                     Embarked
                                                                                                           SibSp
                                                                                                                             Ticket
                                                                                                                                             Family_Size
       Age
             Cabin
                                 Fare
                                       Name
                                                                      Parch
                                                                                           Pclass
                                                                                                    Sex
                                                                                                                   Survived
                                                                                                                                      Title
             NULL
                                        Leonard, Mr. Lionel
                                                                              180
                                                                                                                             LINE
       36
                     S
                                                                                            3
                                 0
                                                                      0
                                                                                                    male
                                                                                                                   0
                                                                                                                                             0
             B94
                                        Harrison, Mr. William
                                                                                                                             112059
       40
                      S
                                                                      0
                                                                              264
                                                                                                    male
                                 0
                                                                                                           0
                                                                                                                   0
                                                                                                                                             0
       25
             NULL
                                        Tomquist, Mr. William Henry
                                                                      0
                                                                              272
                                                                                                    male
                                                                                                                             LINE
                                 0
                                                                                                           0
                                                                                                                                             0
                                        Parkes, Mr. Francis "Frank"
             NULL S
                                                                              278
       30
                                 0
                                                                      0
                                                                                            2
                                                                                                    male
                                                                                                           0
                                                                                                                   0
                                                                                                                             239853
                                                                                                                                             0
             NULL
                                        Johnson, Mr. William Cahoone Jr.
                                                                                                                             LINE
       19
                                                                              303
                     S
                                 0
                                                                                            3
                                                                                                    male
                                                                                                           0
                                                                                                                                             0
             NULL
                                                                                                                             239853
       30
                                        Cunningham, Mr. Alfred Fleming
                                                                                                    male
                                                                              414
                                                                                                           -0
                                                                                                                                             0
             NULL S
                                        Campbell, Mr. William
                                                                              467
                                                                                                                             239853
       30
                                                                      0
                                                                                            2
                                                                                                    male
                                                                                                                                             0
                                        Frost, Mr. Anthony Wood "Arc...
       30
             NULL S
                                                                      0
                                                                              482
                                                                                                    male
                                                                                                                             239854
                                                                                                           0
                                                                                                                                       Mr
                                                                                                                                             0
             NULL S
                                        Johnson, Mr. Alfred
       49
                                 0
                                                                      0
                                                                              598
                                                                                                    male
                                                                                                                             LINE
                                                                                                                                             0
                                        Parr, Mr. William Henry Marsh
             NULL S
                                                                                                                             112052
 10
       30
                                                                              634
                                 0
                                                                                                    male
                                                                                                                                             0
                                                                              675
       30
             NULL S
                                        Watson, Mr. Ennis Hastings
                                                                                                                             239856
                                                                      0
                                                                                                    male
                                                                                                          - 0
                                                                                                                                             0
             NULL
                    S
                                        Knight, Mr. Robert J
                                                                                                                             239855
       30
                                                                      0
                                                                              733
                                                                                            2
 12
                                 0
                                                                                                           -0
                                                                                                                                             0
                                                                                                    male
 13
       39
              A36
                                        Andrews, Mr. Thomas Jr.
                                                                              807
                                                                                                                             112050
                      5
                                 0
                                                                      0
                                                                                            1
                                                                                                    male
       30
             B102
                     S
                                        Fry, Mr. Richard
                                                                      0
                                                                              816
                                                                                                                             112058
 14
                                                                                                    male
             NULL S
       38
 15
                                        Reuchlin, Jonkheer, John Geo...
                                                                              823
                                                                                                                             19972
                                 0
                                                                                            1
                                                                                                    male
                                                                                                                   0
                                                                                                                                             0
```



```
6. Calculate the average family size (SibSp + Parch + 1) for passengers who survived and those who did not
  select AVG([SibSp]+[Parch]+1) AS 'Family size',[Survived]
    from[dbo].[train_clean (3)]
    group by[Survived]
10 %
Results Messages
     Family size
               Survived
```

NO. of Rows - 2

```
Retrieve the names of passengers whose age is missing (NULL)
    ightharpoonup in image is select [Age], [Name]
     from[dbo].[train_clean (3)]
     where [Age] IS NULL
90 %

    ⊞ Results

    Messages

       Age
              Name
```

```
8. Find the most common port of embarkation (Embarked) and its corresponding number of passengers
   select [Embarked], count ([PassengerId]) AS 'Most embarked port'
    from[dbo].[train_clean (3)]
    group by [Embarked]
    order by count([PassengerId]) DESC
90 %
 Results Messages
      Embarked
                Most embarked port
     S
                645
                169
 3
      Q
                77
```

```
9. Calculate the average age for passengers in each passenger class and gender combination
   iselect AVG([Age]) AS 'AVG age of pax and gender', [Pclass], [Sex]
     from[dbo].[train_clean (3)]
     group by[Pclass],[Sex]
     order by [Pclass]
90 %
 Results Messages
      AVG age of pax and gender
                               Pclass
                                      Sex
       34.5531914893617
                                      female
       39.4952459017761
                                       male
       28.5460526315789
                                      female
       30.678981481327
                                       male
       22.6666666666667
                                      female
       27.1539481267634
                                       male
```

	10. Retriev	e passengers	who were traveling a	alone (Family Si	ze = 1) and	did not s	urvive:	
	from[dbo].[ily_Size],[S train_clean v Size]=1 an						
0 %	- (<u> </u>	,,						
⊞ F	Results 📳 N	Messages						
	Family_Size							
1	1	0						
2	1	0						
3	1	0						
4	1	0						
5	1	0						
6	1	0						
7	1	0						
8	1	0						
9	1	0						
10	1	0						
11	1	0						
12	1	0						
13	1	0						
14	1	0						
15	1	0						
16	1	0						
17	1	0						
18	1	0						
19	1	0						
20	1	0					NO.	of R
21	1	0					110.	J. 11



TITANIC DASHBOARD

Total Number of Passengers
Onboard

891

Total Amount Paid by Passengers Onboard

28.69K

Number of Passengers With Highest Fare

3

Number of Passengers With Lowest fare

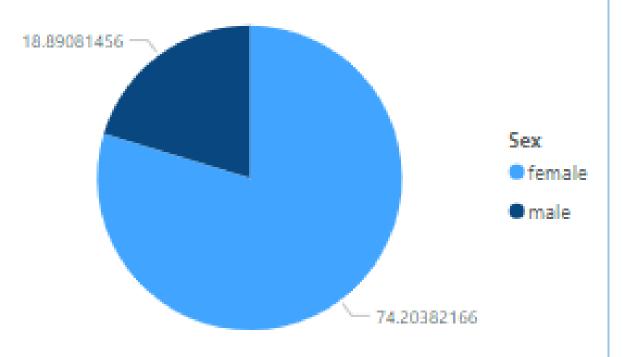
15

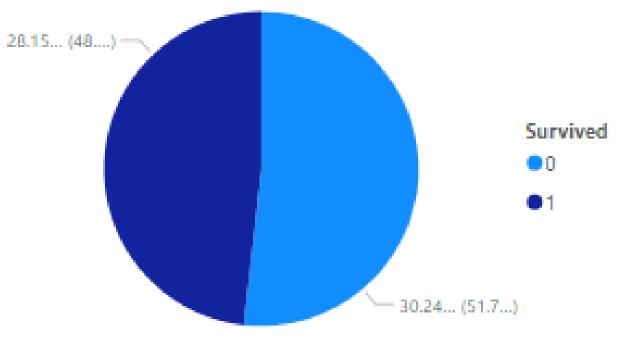
Survival Rate of Male and Female Passengers

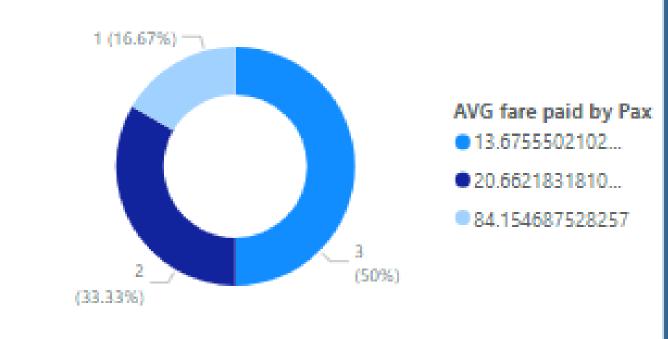
ale

Average Age of Passengers Who Survived and Those Who Didnot

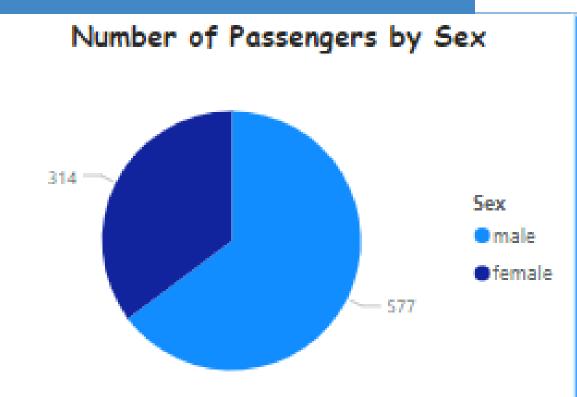
Average fare Paid Passengers in Each Class



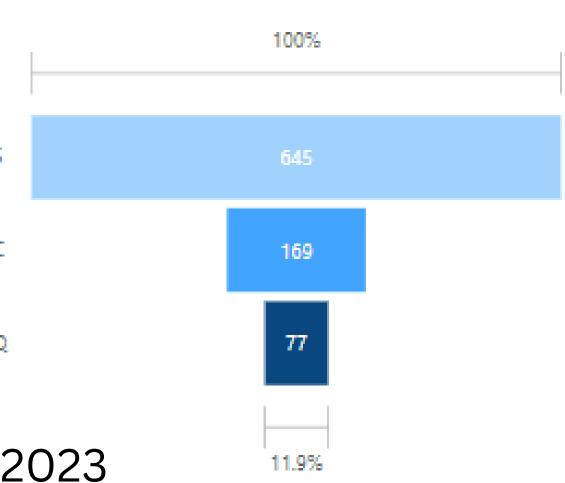




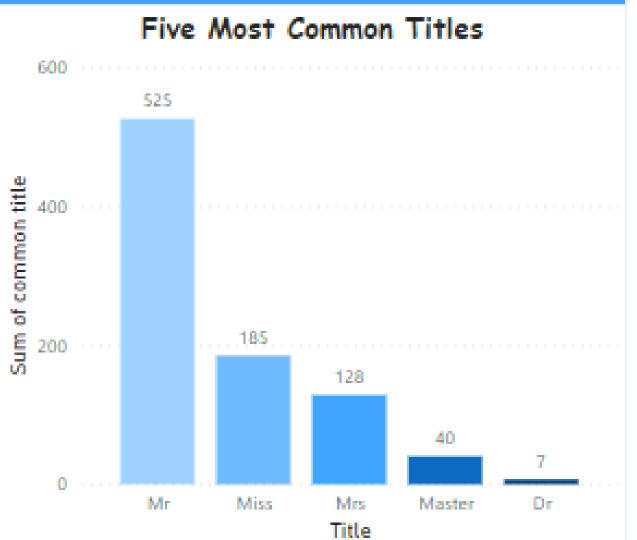
TITANIC DASHBOARD

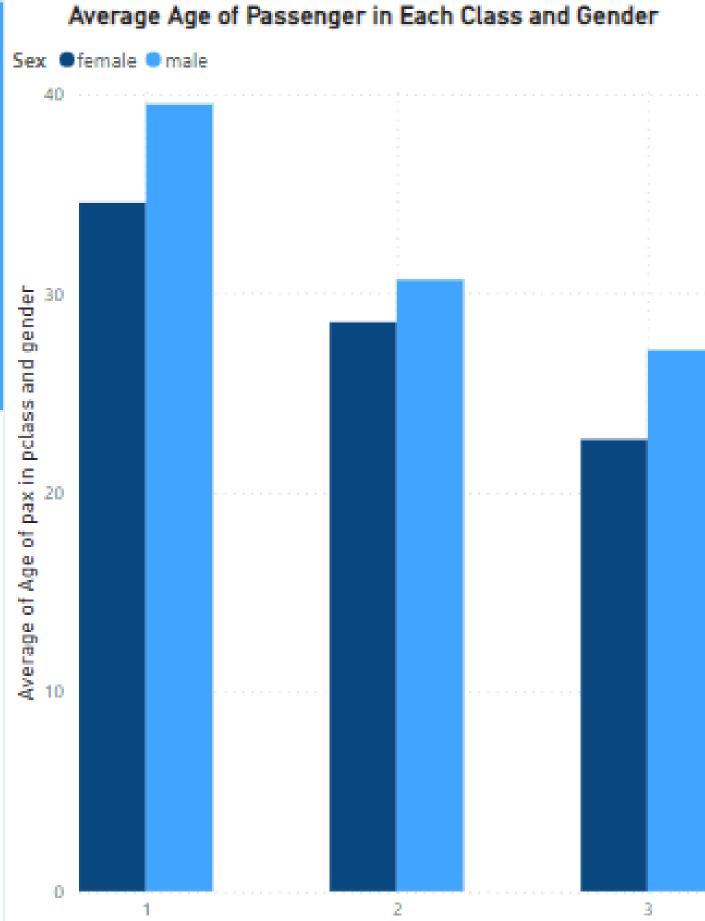












Pclass

INSIGHTS

From the analysis, sum of no of passengers for male (577) was higher than female (314).

port S had the highest number of passengers embarkation with a total of 645 passenger while port C had 169 and port Q had 77 respectively.

At 525 Mr had the highest some of common title and was 7400.00% higher than Dr which had the sum of least common title at 7.

Though PClass 1 had a low population of (16.63%) the fare of 84.5 generated was higher than PClass 3 (13.68) with the highest population of 50%.

The deaths were more than the survivors with a death rate of 57.1% and survivor rate of 48.2%. The survival rate for female (79.71%) was higher than male (20.29%).

Average average of age for passengers in PClass and gender was higher for male (32.44) than female (28.59)

04

05

06

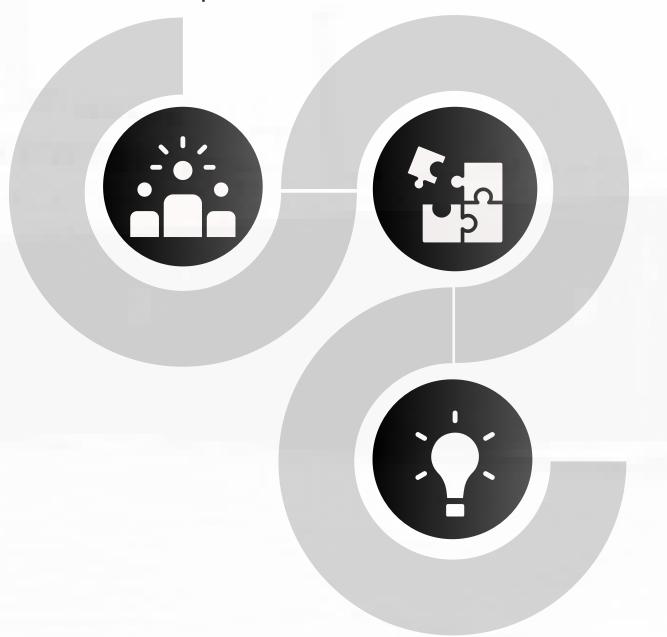
03

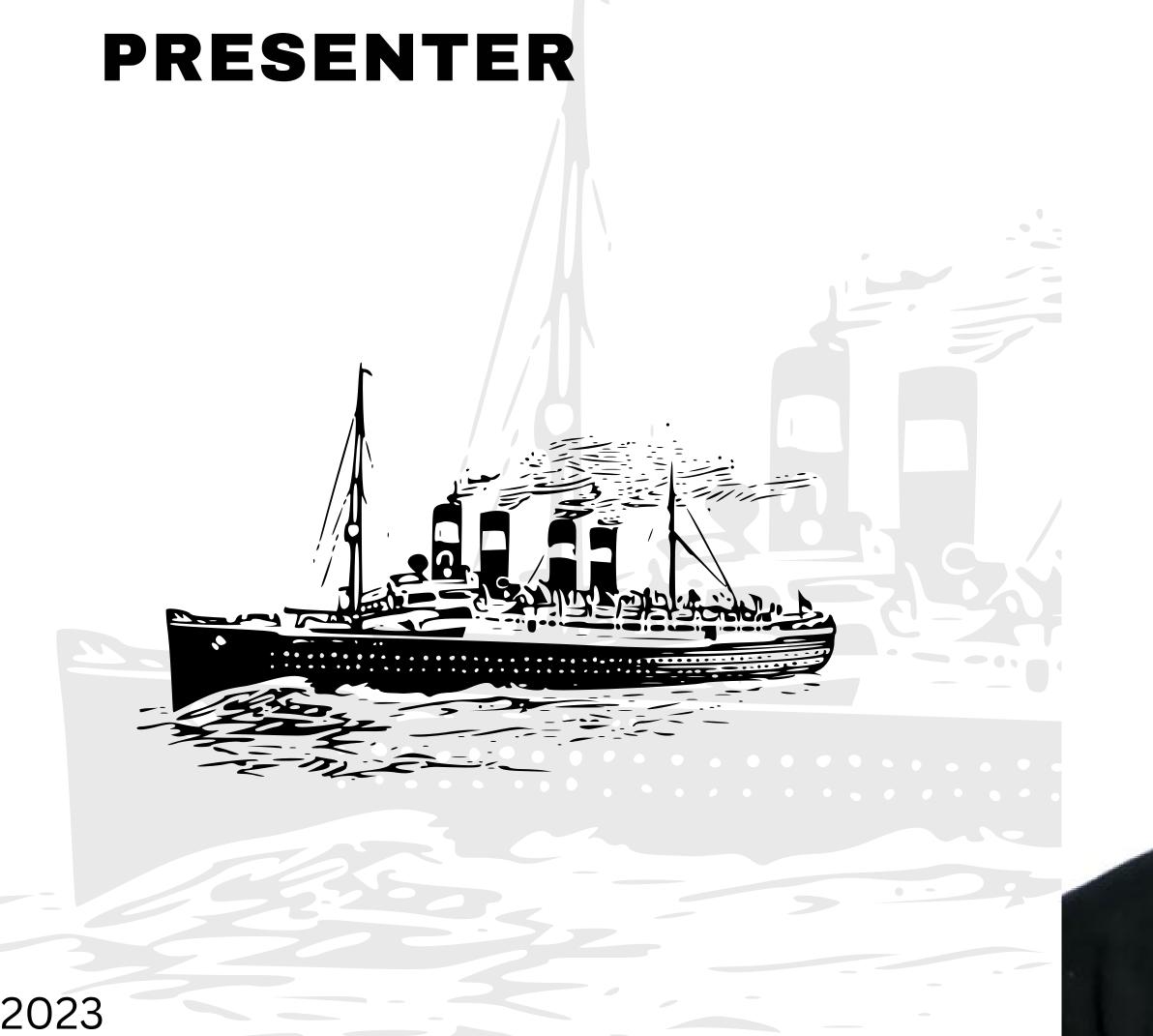
RECOMMENDATIONS

- To avoid possible high rate of deaths, the passengers, crew members and spare life jackets should be provided.
- There should be constant safety briefing of passengers before boarding to create awareness of what to do incase of emergency..
- O3
 Sufficient provision of life boat to accomodate thenumber of passengers on board for safe evacuation.

There should be effective ways of communicating unexpected signals of dangers between the tower watchkeeper and the crew on deck.









TITANIC PROJECT

THANK'S FOR WATCHING

Chiemeziem Okeke

