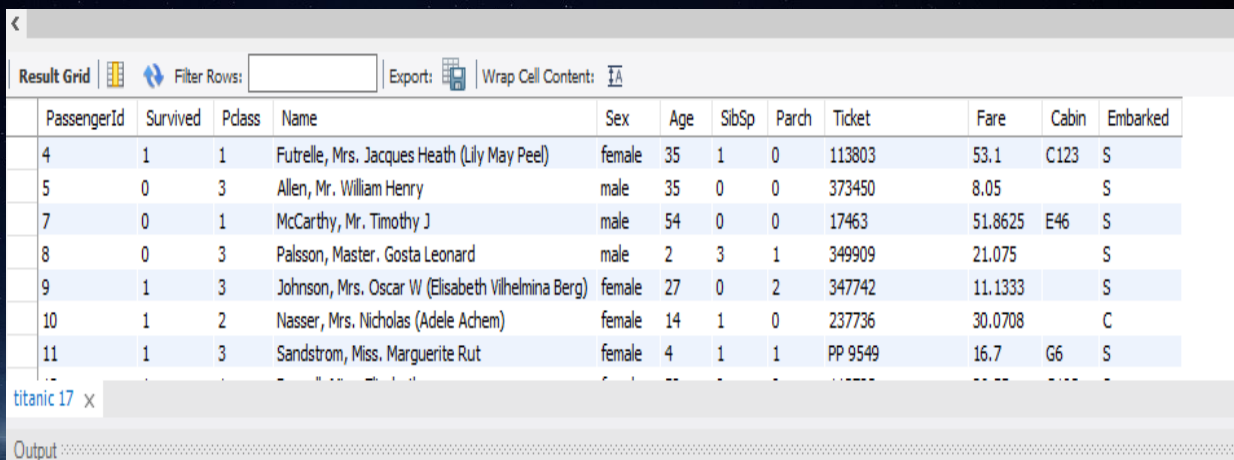


Unveiling the Titanic: Insights through SQL



The screenshot shows a web-based SQL interface with a 'Result Grid' tab selected. It displays a table of Titanic passenger data with columns: PassengerId, Survived, Pclass, Name, Sex, Age, SibSp, Parch, Ticket, Fare, Cabin, and Embarked. The table contains 11 rows of data. Above the table, there are controls for 'Filter Rows' (a text input), 'Export' (a button), and 'Wrap Cell Content' (a dropdown menu). Below the table, there is a tab labeled 'titanic 17' and an 'Output' section.

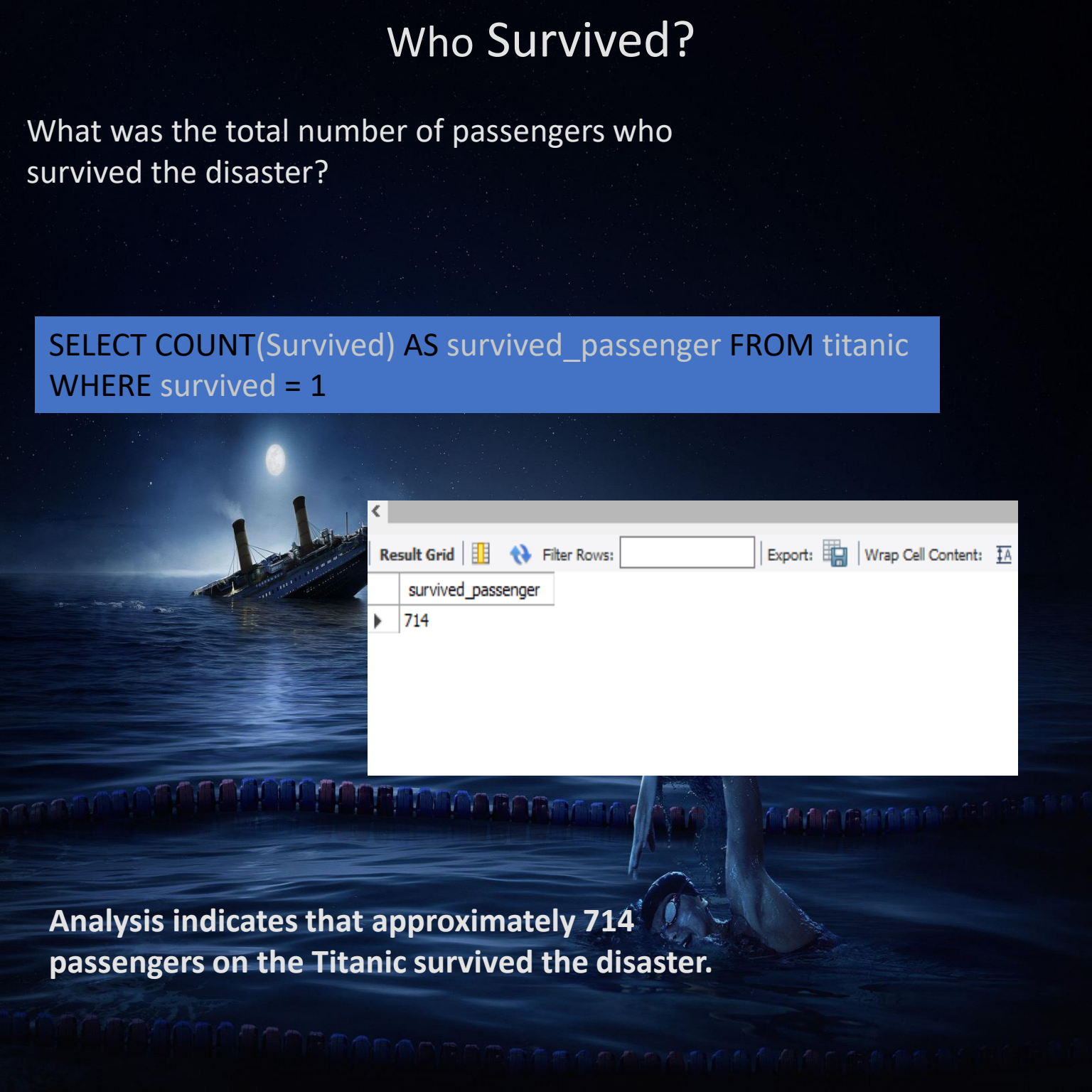
PassengerId	Survived	Pclass	Name	Sex	Age	SibSp	Parch	Ticket	Fare	Cabin	Embarked
4	1	1	Futrelle, Mrs. Jacques Heath (Lily May Peel)	female	35	1	0	113803	53.1	C123	S
5	0	3	Allen, Mr. William Henry	male	35	0	0	373450	8.05		S
7	0	1	McCarthy, Mr. Timothy J	male	54	0	0	17463	51.8625	E46	S
8	0	3	Palsson, Master. Gosta Leonard	male	2	3	1	349909	21.075		S
9	1	3	Johnson, Mrs. Oscar W (Elisabeth Vilhelmina Berg)	female	27	0	2	347742	11.1333		S
10	1	2	Nasser, Mrs. Nicholas (Adele Achem)	female	14	1	0	237736	30.0708		C
11	1	3	Sandstrom, Miss. Marguerite Rut	female	4	1	1	PP 9549	16.7	G6	S

This presentation delves into the fascinating story of the Titanic disaster using the power of SQL, a structured query language. SQL allows us to extract, analyze, and manipulate data stored in relational databases. By applying SQL queries to the Titanic passenger dataset, we can gain valuable insights into the demographics, travel experiences, and fates of those onboard the ill-fated ship. This exploration will provide a glimpse into the human stories behind the tragedy and reveal interesting patterns within the data.

Who Survived?

What was the total number of passengers who survived the disaster?

```
SELECT COUNT(Survived) AS survived_passenger FROM titanic  
WHERE survived = 1
```



The background of the slide features a dark, atmospheric image. The upper portion shows the Titanic ship at night, illuminated by a full moon, with its two smokestacks visible. The lower portion shows a swimmer in the water, with their head and arms visible, and a line of red and blue buoys stretching across the frame.

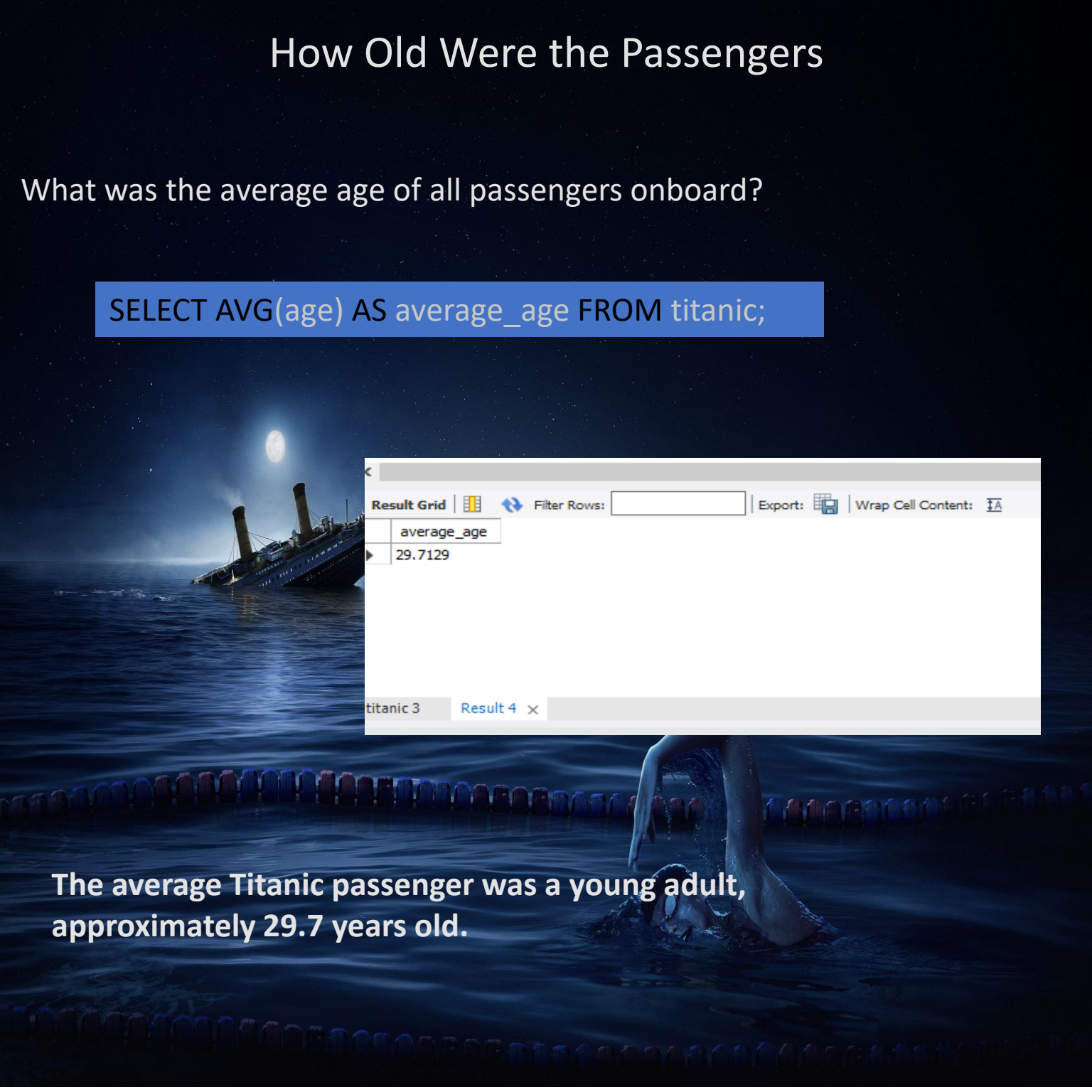
Result Grid		Filter Rows:	Export:	Wrap Cell Content:
survived_passenger				
▶	714			

Analysis indicates that approximately 714 passengers on the Titanic survived the disaster.

How Old Were the Passengers

What was the average age of all passengers onboard?

```
SELECT AVG(age) AS average_age FROM titanic;
```



The background image shows the Titanic ship at night, illuminated by a full moon. In the foreground, a swimmer is visible in the water, with a lane line floating nearby.

Result Grid	Filter Rows:	Export:	Wrap Cell Content:
average_age			
29.7129			

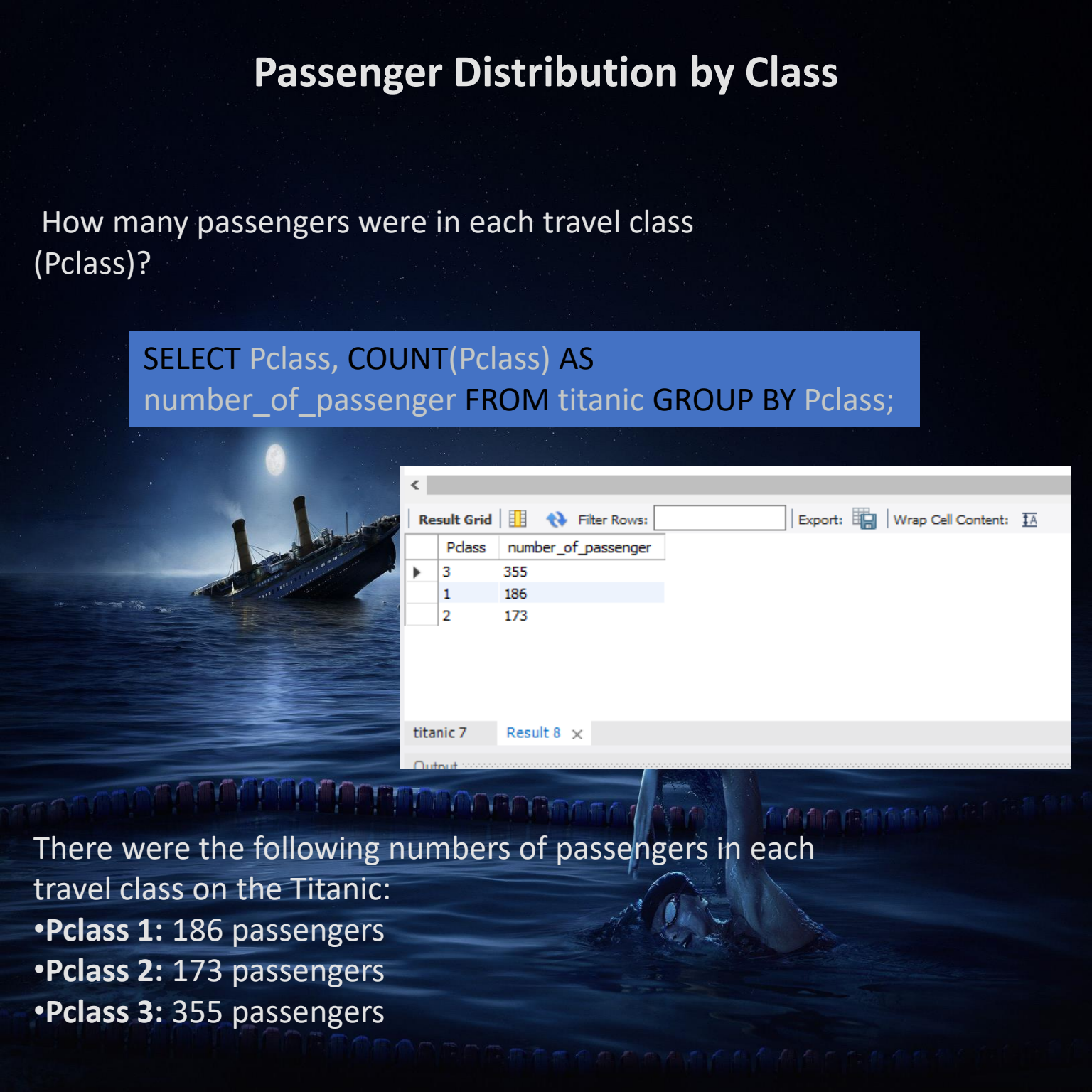
titanic 3 Result 4 x

The average Titanic passenger was a young adult, approximately 29.7 years old.

Passenger Distribution by Class

How many passengers were in each travel class (Pclass)?

```
SELECT Pclass, COUNT(Pclass) AS  
number_of_passenger FROM titanic GROUP BY Pclass;
```



The background of the slide features a dramatic night scene of the Titanic ship sinking into the dark ocean. The ship is tilted, with its two prominent funnels visible against a dark sky with a full moon. In the foreground, a swimmer is seen in the water, their head and arms visible, adding a sense of tragedy and human impact to the data presentation.

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
	Pclass	number_of_passenger		
▶	3	355		
	1	186		
	2	173		

titanic 7 Result 8 ×

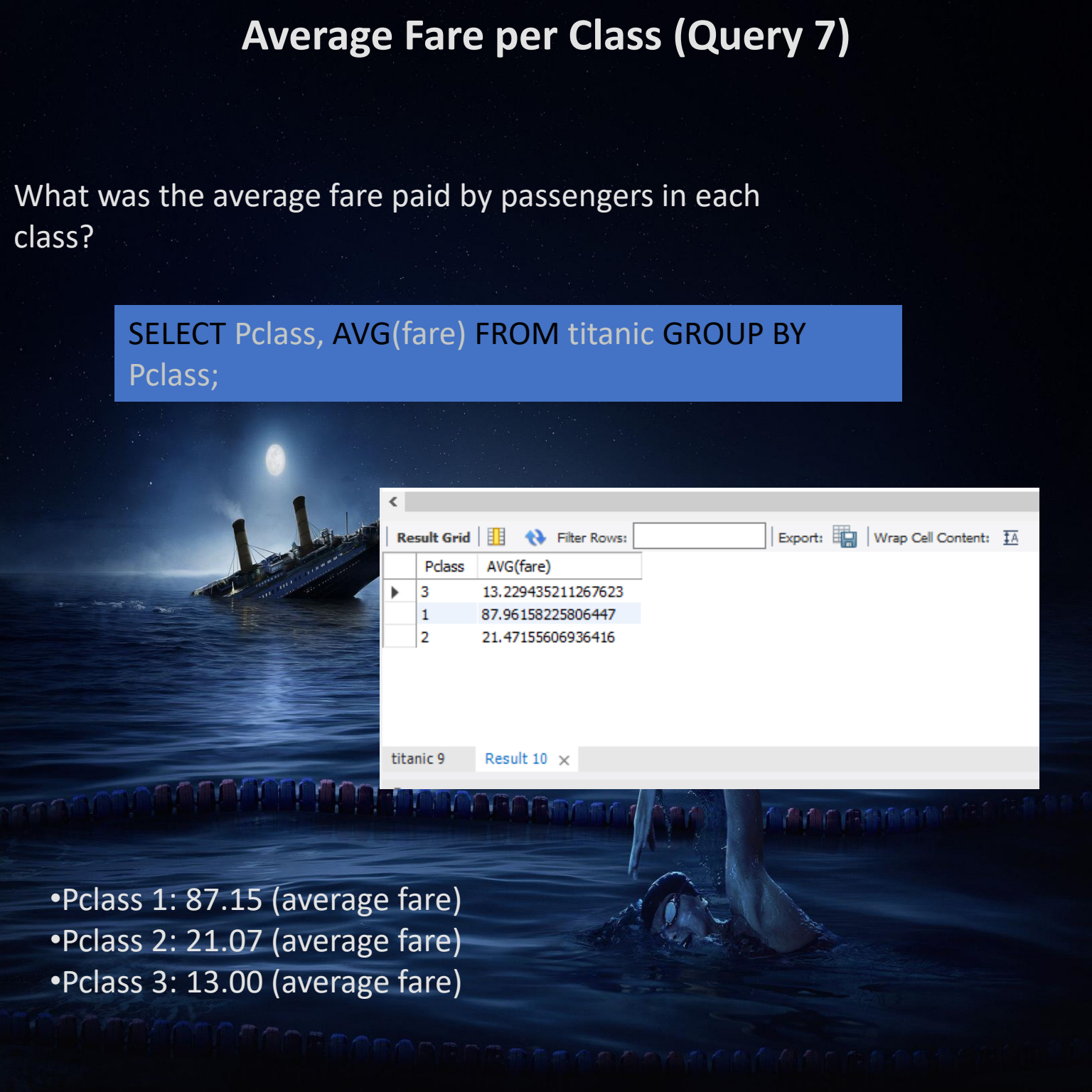
There were the following numbers of passengers in each travel class on the Titanic:

- **Pclass 1:** 186 passengers
- **Pclass 2:** 173 passengers
- **Pclass 3:** 355 passengers

Average Fare per Class (Query 7)

What was the average fare paid by passengers in each class?

```
SELECT Pclass, AVG(fare) FROM titanic GROUP BY Pclass;
```

The background of the slide is a dark, atmospheric image of the Titanic ship at night, illuminated by a full moon. The ship is tilted, and its smokestacks are visible. In the foreground, there are blue and red buoys floating in the water, and a person's head and arm are visible, suggesting a rescue or survival scenario.

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
Pclass	AVG(fare)			
3	13.229435211267623			
1	87.96158225806447			
2	21.47155606936416			

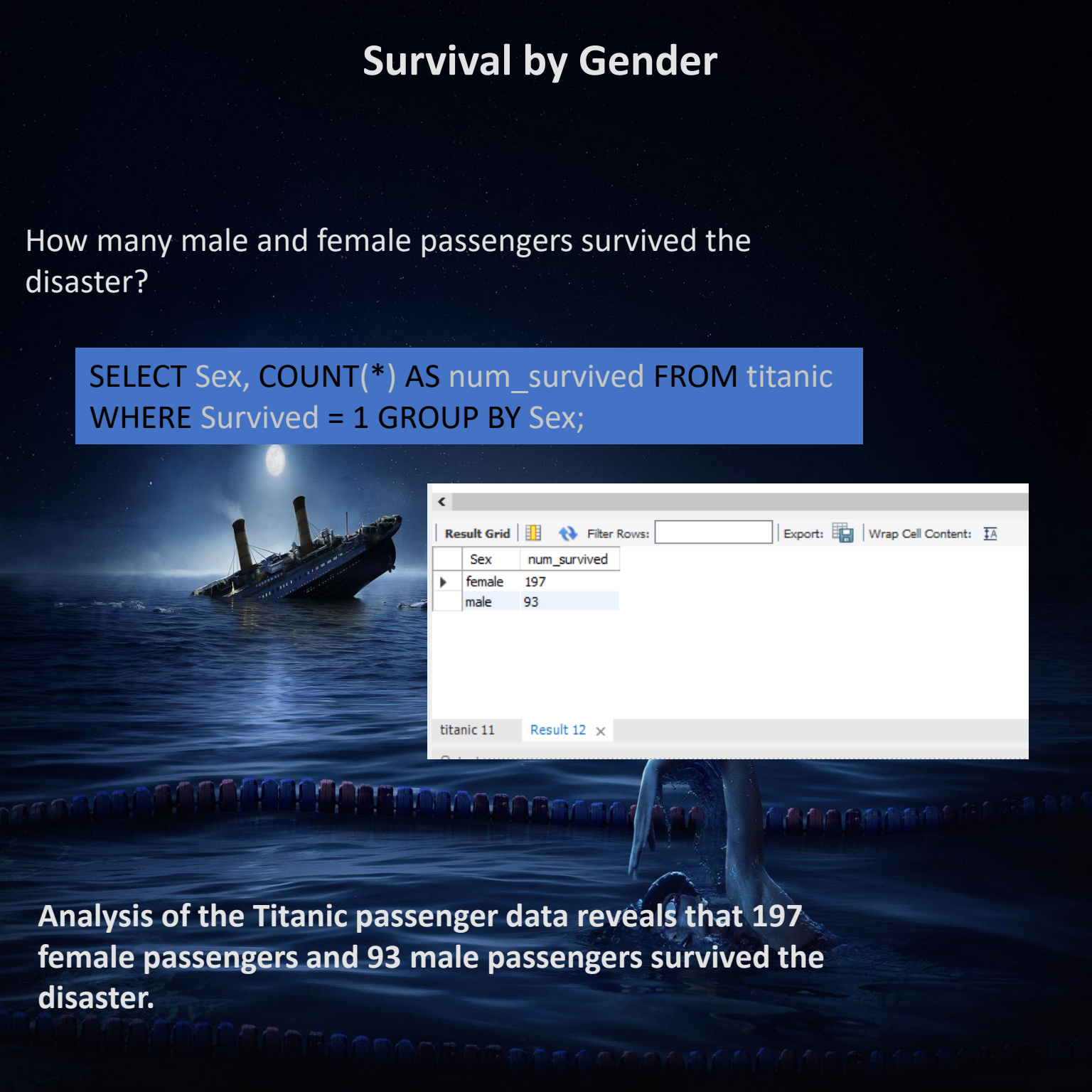
titanic 9 Result 10 x

- Pclass 1: 87.15 (average fare)
- Pclass 2: 21.07 (average fare)
- Pclass 3: 13.00 (average fare)

Survival by Gender

How many male and female passengers survived the disaster?

```
SELECT Sex, COUNT(*) AS num_survived FROM titanic  
WHERE Survived = 1 GROUP BY Sex;
```

The background of the slide is a dark, atmospheric image of the Titanic ship sinking at night. The ship is tilted, with smoke rising from its funnels, and a full moon is visible in the dark sky. In the foreground, a person's arm and hand are visible, reaching up from the water, suggesting a rescue or survival theme.

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
Sex	num_survived			
female	197			
male	93			

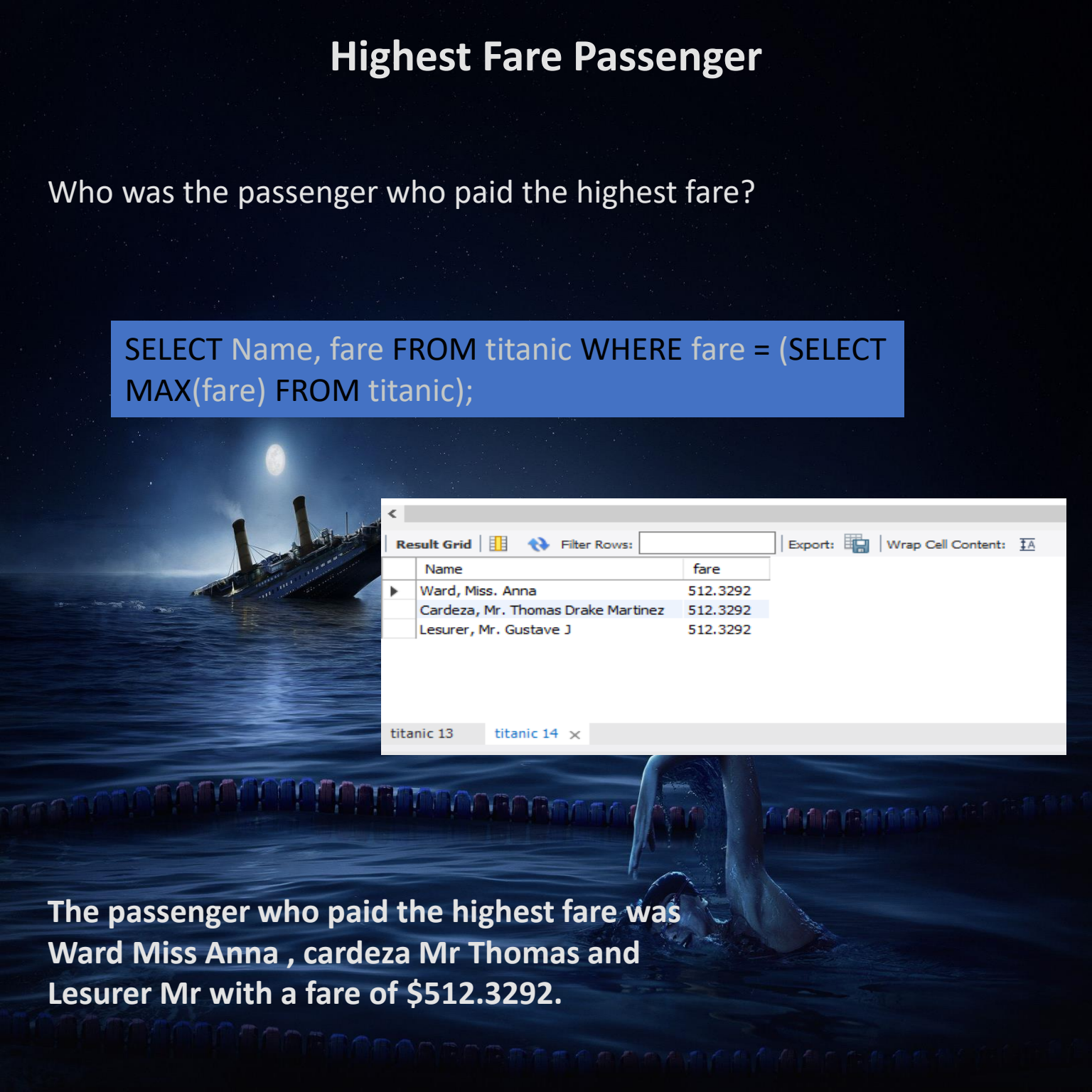
titanic 11 Result 12 x

Analysis of the Titanic passenger data reveals that 197 female passengers and 93 male passengers survived the disaster.

Highest Fare Passenger

Who was the passenger who paid the highest fare?

```
SELECT Name, fare FROM titanic WHERE fare = (SELECT  
MAX(fare) FROM titanic);
```



The background of the slide features a dramatic night scene of the Titanic ship, illuminated by its own lights and a full moon, with a swimmer visible in the dark water in the foreground.

Result Grid			Filter Rows:	Export:	Wrap Cell Content:
	Name	fare			
▶	Ward, Miss. Anna	512.3292			
	Cardeza, Mr. Thomas Drake Martinez	512.3292			
	Lesurer, Mr. Gustave J	512.3292			


titanic 13 titanic 14 ×

The passenger who paid the highest fare was Ward Miss Anna , cardeza Mr Thomas and Lesurer Mr with a fare of \$512.3292.

Most Family on Board

Who was the passenger who had the most parents or children on board (based on Parch value)?

```
SELECT NAME, Parch FROM titanic WHERE Parch =  
(SELECT MAX(parch) FROM titanic);
```



Result Grid | Filter Rows: | Export: | Wrap Cell Content:

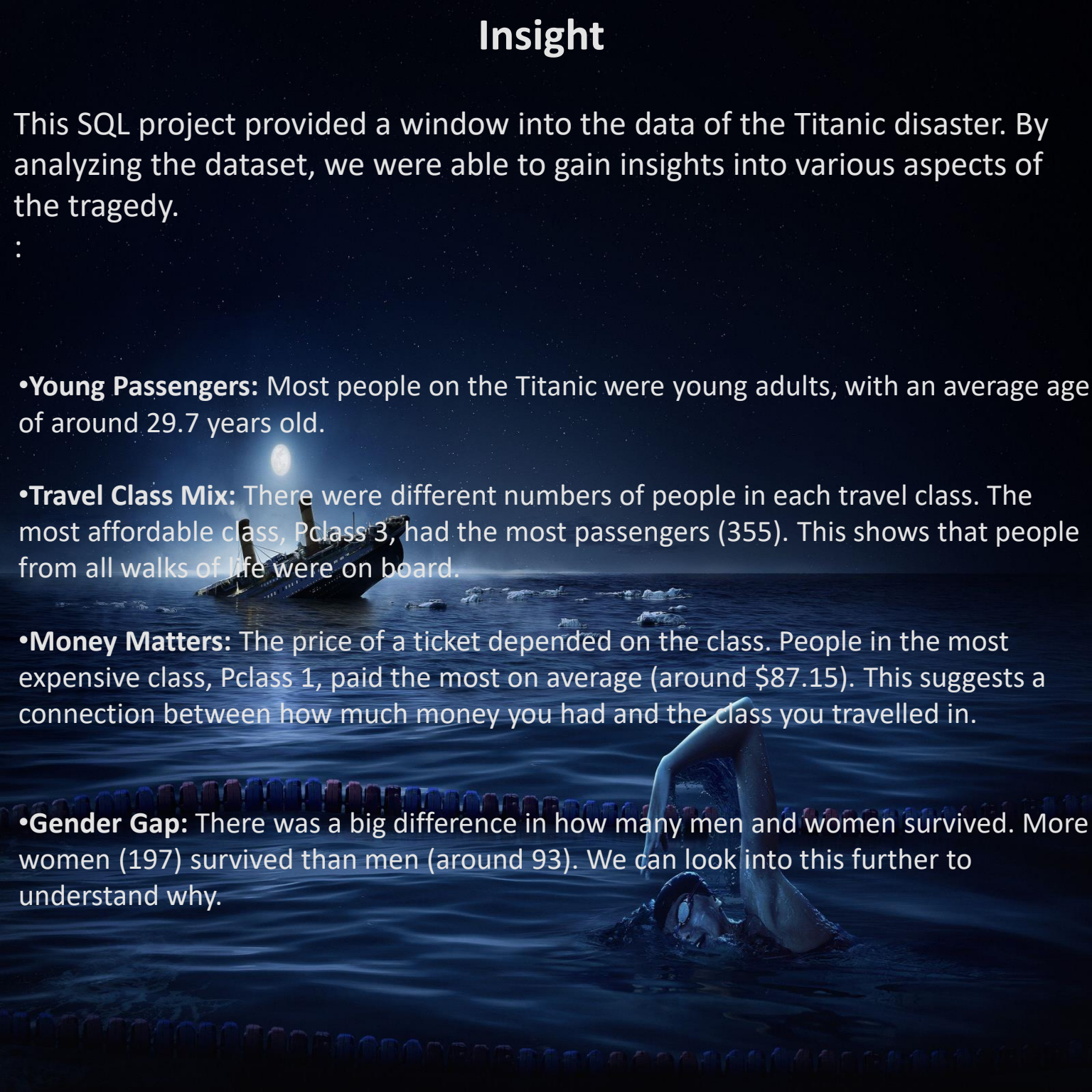
NAME	Parch
▶ Goodwin, Mrs. Frederick (Augusta Tyler)	6

titanic 15 titanic 16 ×

The passenger with the most parents or children onboard, as indicated by the 'Parch' value, was Mrs. Frederick (Augusta Tyler Goodwin).

Insight

This SQL project provided a window into the data of the Titanic disaster. By analyzing the dataset, we were able to gain insights into various aspects of the tragedy.

- 
- A composite image with a dark, blue-toned background. In the upper left, the Titanic ship is visible, partially submerged in the ocean under a full moon. In the lower right, a swimmer is shown in a pool, with their head and arms above water. A pool lane divider with red and blue floats runs horizontally across the middle of the image.
- Young Passengers:** Most people on the Titanic were young adults, with an average age of around 29.7 years old.
 - Travel Class Mix:** There were different numbers of people in each travel class. The most affordable class, Pclass 3, had the most passengers (355). This shows that people from all walks of life were on board.
 - Money Matters:** The price of a ticket depended on the class. People in the most expensive class, Pclass 1, paid the most on average (around \$87.15). This suggests a connection between how much money you had and the class you travelled in.
 - Gender Gap:** There was a big difference in how many men and women survived. More women (197) survived than men (around 93). We can look into this further to understand why.