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**Date: 9/1/25**

**To: HDNB**

1. Overall Survival Rate:

* What percentage of passengers survived?

SELECT (SUM(Survived) \* 100.0 / COUNT(\*)) AS surv\_percent

FROM projecthdnb.projectsameer.titanic;

2. Survival by Passenger Class (Pclass):

* What is the survival rate for each passenger class (1st, 2nd, 3rd)?

SELECT Pclass,

ROUND(SUM(Survived) \* 100.0 / COUNT(\*), 2) AS pclass\_surv\_rate

FROM projecthdnb.projectsameer.titanic

GROUP BY Pclass;

3. Survival by Gender (Sex):

* What is the survival rate based on gender?

SELECT sex, ROUND(SUM(Survived) \* 100.0 / COUNT(\*), 2) AS gender\_surv\_rate

FROM projecthdnb.projectsameer.titanic

GROUP BY sex;

4. Fare vs. Survival:

* What is the average fare for survivors vs. non-survivors?

SELECT Survived, AVG(Fare) AS fare,

FROM projecthdnb.projectsameer.titanic

GROUP BY Survived;

5. Age vs. Survival:

* What is the average age of survivors and non-survivors?

SELECT Survived, AVG(Age) AS age,

FROM projecthdnb.projectsameer.titanic

GROUP BY Survived;

6. Survival by Embarkation Port (Embarked):

* What is the survival rate based on the port of embarkation (C = Cherbourg, Q = Queenstown, S = Southampton)?

SELECT Embarked, (SUM(Survived) \* 100.0 / COUNT(\*)) AS surv\_percent

FROM projecthdnb.projectsameer.titanic

GROUP BY Embarked;

7. Family Size vs. Survival (SibSp and Parch):

* How does family size (sum of SibSp and Parch) affect survival?

SELECT (SibSp + Parch) AS family\_size,

(SUM(Survived) \* 100.0 / COUNT(\*)) AS surv\_percent

FROM projecthdnb.projectsameer.titanic

GROUP BY family\_size

ORDER BY family\_size;

8. Top 10 Survivors by Fare Paid:

* Who are the top 10 passengers who paid the highest fare and survived?

SELECT PassengerId,

Name,

Age,

Fare

FROM projecthdnb.projectsameer.titanic

WHERE Survived = 1

ORDER BY Fare DESC

LIMIT 10;