**SQL Commands**

**--PERCENT OF SURVIVAL**

 SELECT

 ROUND((SUM(CAST(Survived AS INT64))/COUNT(\*)) \* 100,2) AS percent\_survived

 FROM `hdnb-final.Train\_123.Train\_Updated`

**--SURVIVAL RATE OF EACH PASSENGER**

 SELECT

  Pclass,

  ROUND((SUM(CAST(Survived AS INT64)) / COUNT(\*)) \* 100, 2) AS survival\_rate\_percentage

FROM

  `hdnb-final.Train\_123.Train\_Updated`

GROUP BY

  Pclass

ORDER BY

  Pclass;

**--SURIVIVAL RATE BASED ON GENDER**

SELECT

  Sex,

  ROUND((SUM(CAST(Survived AS INT64)) / COUNT(\*)) \* 100, 2) AS survival\_rate\_percentage

FROM

  `Train\_123.Train\_Updated`

GROUP BY

  Sex

ORDER BY

  Sex;

**--Average fare for survivors vs. non-survivors**

SELECT  Survived, ROUND(AVG(FARE),2)

FROM `hdnb-final.Train\_123.Train\_Updated`

GROUP BY Survived

ORDER BY Survived;

**--Average fare for survivors vs. non-survivors**

SELECT  Survived, ROUND(AVG(FARE),2)

FROM `hdnb-final.Train\_123.Train\_Updated`

GROUP BY Survived

ORDER BY Survived;

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

SELECT  Survived, ROUND(AVG(AGE),2) AS Average\_Age

FROM `hdnb-final.Train\_123.Train\_Updated`

GROUP BY Survived

ORDER BY Survived;

**-- Survival rate based on the port of embarkation (C = Cherbourg, Q = Queenstown, S = Southampton)**

SELECT  Embarked, ROUND((SUM(CAST(Survived AS INT64)))/COUNT(\*)\*100,2) AS survival\_rate

FROM `hdnb-final.Train\_123.Train\_Updated`

GROUP BY Embarked

ORDER BY Embarked

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

SELECT SibSp,COUNT(SibSp) AS Total\_Sibsp, Parch, COUNT(Parch) AS Total\_parch ,ROUND((SUM(CAST(Survived AS INT64)))/COUNT(\*)\*100,2) AS survival\_rate

FROM `hdnb-final.Train\_123.Train\_Updated`

GROUP BY SibSp, Parch;

**--TOP 10 Survivors by the fare paid**

SELECT Name, Survived, Fare

FROM `hdnb-final.Train\_123.Train\_Updated`

WHERE Survived = TRUE

ORDER BY Fare DESC

LIMIT 10;