## Early aviation accident data analysis

What was the total number of fatalities in accidents each year?

SELECT Year, SUM (Fatalities) AS 'Total Fatalities each year'

FROM airline\_DB

GROUP BY Year

• Top years for highest fatalities incidents

SELECT TOP 5 YEAR, SUM (Fatalities) AS 'Top Highest Fatalities'

FROM airline\_DB

GROUP BY Year ORDER BY SUM (Fatalities) desc;

• How many accidents occurred in military vs civilian flights?

SELECT

SUM(CASE WHEN Operator LIKE 'Military%' THEN 1 ELSE 0 END) AS Military\_Accidents,

SUM(CASE WHEN Operator NOT LIKE 'Military%' THEN 1 ELSE 0 END) AS Civilian\_Accidents

FROM airline\_db

• What was the accident with the highest number of fatalities?

SELECT TOP 3 \* FROM airline\_DB

**ORDER BY Fatalities Desc** 

• --Which aircraft models were involved in more than one accident?

SELECT Registration, COUNT(\*) AS 'Aircraft Model'

FROM airline\_DB

**GROUP BY Registration** 

HAVING COUNT(\*)>1 ORDER BY COUNT(\*) Desc

• What was the deadliest aviation accident in terms of both onboard and ground fatalities?

SELECT TOP 1 \*, (Aboard + Ground) AS 'Total\_Fatalities'

FROM airline\_DB

ORDER BY Total\_Fatalities Desc

• Deadliest aviation accident in respective of fatalities?

SELECT TOP 1 \* FROM airline\_DB

ORDER BY Fatalities Desc

• How many accidents involved airships (Zeppelin), and what was their average number of fatalities?

SELECT COUNT(\*) AS 'Total Airship Accident',

avg(Fatalities) AS 'Average Fatalities'

FROM airline\_DB

WHERE Type LIKE '%Zeppelin%'

 Which operator had the highest number of accidents, and what was the most common aircraft type they operated?

SELECT TOP 5 Operator,

COUNT(\*) AS 'number of accidents',

MAX(Type) As 'Aircraft Type'

FROM airline\_DB GROUP BY Operator ORDER BY COUNT(\*) Desc

What was the most common location for aviation accidents in the dataset?

SELECT TOP 1 Location,

COUNT(\*) AS 'Total Accidents',

DENSE\_RANK() OVER (ORDER BY COUNT(\*) Desc) AS 'Accident\_Rank'

FROM airline\_DB

GROUP BY Location ORDER BY [Total Accidents] Desc

CELECT COLLAIT(\*) A C ITatal Airbug A saidental

How many accidents involved Airbus aircraft?

SELECT COUNT(\*) AS 'Total Airbus Accidents'

FROM airline\_DB

WHERE Type Like '%Airbus%'

Which year had the highest number of aviation accidents?

SELECT TOP 1 Year, COUNT(\*) As 'Highest Accidents'

FROM airline\_DB

GROUP BY Year ORDER BY COUNT(\*) Desc

How many accidents occurred during test flights?

SELECT COUNT(\*) AS 'Total Test Flight Accidents'

FROM airline\_DB

WHERE Summary Like '%test flight%'