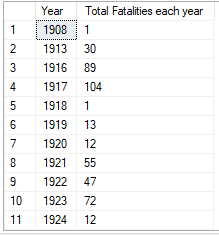
# Early aviation accident data analyzing

* 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;

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* 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

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Description automatically generated

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

SELECT TOP 3 \* FROM airline\_DB

ORDER BY Fatalities Desc

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* --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

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* 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



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* 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%'



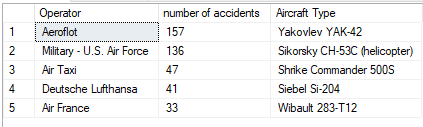
* Which operator had the highest number of accidents, and what was the most common aircraft type they operated?

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



* 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%'

