COPY space\_missions FROM 'D:\space\_missions.csv' WITH DELIMITER ',' CSV HEADER ENCODING 'ISO-8859-1';

SELECT company, COUNT(\*) AS num\_rockets\_launched

FROM space\_missions

GROUP BY company

ORDER BY num\_rockets\_launched DESC

Limit 5;

SELECT country, COUNT(\*) AS num\_missions

FROM space\_missions

GROUP BY country

ORDER BY num\_missions DESC

Limit 5;

SELECT country, COUNT(\*) AS num\_missions, SUM(price) AS total\_cost, ROUND(AVG(price), 2) AS avg\_cost

FROM space\_missions

GROUP BY country

ORDER BY num\_missions DESC

LIMIT 5;

SELECT street, COUNT(\*) AS num\_missions

FROM space\_missions

GROUP BY street

ORDER BY num\_missions DESC

LIMIT 5;

SELECT year, COUNT(\*) AS num\_missions

FROM space\_missions

WHERE year IS NOT NULL

GROUP BY year

ORDER BY year DESC;

SELECT FLOOR(year/10)\*10 AS decade\_start, COUNT(\*) AS num\_missions

FROM space\_missions

WHERE year IS NOT NULL

GROUP BY FLOOR(year/10)\*10

ORDER BY decade\_start DESC;

SELECT (round(COUNT(\*) FILTER (WHERE missionstatus = 'Success') \* 100.0 / COUNT(\*)),2) AS Success\_percentage,

(round(COUNT(\*) FILTER (WHERE missionstatus = 'Failure') \* 100.0 / COUNT(\*)),2) AS Failure\_percentage,

(round(COUNT(\*) FILTER (WHERE missionstatus = 'Partial Failure') \* 100.0 / COUNT(\*)),2) AS Partial\_Failure\_percentage,

(round(COUNT(\*) FILTER (WHERE missionstatus = 'Prelaunch Failure') \* 100.0 / COUNT(\*)),2) AS Prelaunch\_Failure\_percentage

FROM space\_missions;

SELECT rocketstatus, missionstatus, COUNT(\*) AS num\_missions, SUM(CASE WHEN missionstatus = 'Success' THEN 1 ELSE 0 END) AS num\_successes, AVG(CASE WHEN missionstatus = 'Success' THEN 1 ELSE 0 END) AS success\_rate

FROM space\_missions

WHERE rocketstatus IS NOT NULL

GROUP BY rocketstatus, missionstatus

SELECT COUNT(\*) AS num\_missions

FROM space\_missions

SELECT AVG(Price) AS avg\_price

FROM space\_missions

SELECT price, country, COUNT(\*) AS num\_missions

FROM space\_missions

WHERE price IS NOT NULL

GROUP BY price, country

ORDER BY price DESC

Limit 5;

SELECT price, country, COUNT(\*) AS num\_missions

FROM space\_missions

WHERE price IS NOT NULL

GROUP BY price, country

ORDER BY price ASC

Limit 5;