**שאילתות:**

1. **In which industry is the Mac operating system rated higher?**

SELECT industry, AVG(rating) AS average\_rating

FROM (

SELECT industry, rating, ROW\_NUMBER() OVER (PARTITION BY industry ORDER BY rating DESC) AS rn

FROM FactTable

WHERE system = 'Mac'

) AS ranked

WHERE rn = 1

GROUP BY industry;

1. **What are the average ratings for operating systems with mobile apps?**

SELECT AVG(rating) AS AverageRating

FROM FactTable

WHERE MobileApps = 'Y';

1. **Is an operating system that has a mobile app rated higher on average than operating systems without a mobile app, within each industry?**

SELECT Industry, MobileApps, AVG(Rating) AS AverageRating

FROM FactTable

GROUP BY Industry, MobileApps

HAVING COUNT(\*) > 1

ORDER BY Industry, MobileApps;

1. **What are the top 3 industries with the highest average rating for each operating system?**

SELECT OS, Industry, AverageRating

FROM (

SELECT OS, Industry, AVG(rating) AS AverageRating, RANK() OVER (PARTITION BY OS ORDER BY AVG(rating) DESC) AS Ranking

FROM FactTable

GROUP BY OS, Industry

) AS Subquery

WHERE Ranking <= 3

ORDER BY OS, Ranking;

1. **Is there a difference in the average rating of OS between industries with a high number of Mac users and industries with a low number of Mac users?**

SELECT industry,

NTILE(4) OVER (PARTITION BY industry ORDER BY rating DESC) AS rating\_bucket,

AVG(rating) AS avg\_rating

FROM FactTable

WHERE OS = 'Mac'

GROUP BY industry

ORDER BY avg\_rating DESC;

1. **Which Operating system has the highest rating within each industry?**

SELECT industry, OS, rating

FROM (

SELECT industry, OS, rating, ROW\_NUMBER() OVER (PARTITION BY industry ORDER BY rating DESC) AS rn

FROM FactTable

) AS ranked

WHERE rn = 1;