

SMARTPHONES DATASET

Beginner Level Questions

1. Query all columns: Write a query to retrieve all columns from the smartphone dataset.
2. Filter by price: Write a query to find all smartphones with a price less than \$5000.
3. Count smartphones: Write a query to count the total number of smartphones in the dataset.
4. Filter by brand: Write a query to find all smartphones from the brand "Samsung".
5. Sort by rating: Write a query to sort smartphones by their rating in descending order.
6. Select specific columns: Write a query to retrieve the brand name and model of all smartphones.
7. Filter by 5G support: Write a query to find all smartphones that support 5G.
8. Count unique brands: Write a query to count the number of unique smartphone brands present in the dataset.
9. Filter by RAM: Write a query to find all smartphones with a RAM capacity of 8 GB or more.
10. Find smartphones with fast charging: Write a query to find all smartphones that have fast charging available.

Intermediate Level Questions

1. Smartphones with the highest price: Write a query to find the smartphone with the highest price.
2. Average rating by brand: Write a query to calculate the average rating for smartphones by brand.
3. Filter by battery capacity: Write a query to find all smartphones with a battery capacity greater than 4000 mAh.
4. Sort by screen size: Write a query to retrieve all smartphones, sorted by screen size in ascending order.
5. Count smartphones by operating system: Write a query to count how many smartphones run on Android and iOS.
6. Find top 5 rated smartphones: Write a query to retrieve the top 5 smartphones with the highest ratings.
7. Smartphones with multiple rear cameras: Write a query to find all smartphones with more than two rear cameras.
8. Filter by processor speed: Write a query to find smartphones with a processor speed of 2.5 GHz or higher.
9. Count smartphones with NFC support: Write a query to count how many smartphones have NFC capability.
10. Find smartphones with a specific resolution: Write a query to find smartphones with a resolution width greater than 1080 pixels.

Advanced Level Questions

1. Smartphones with the highest rating per brand: Write a query to find the highest rating for each brand.
2. Average price by operating system: Write a query to calculate the average price of smartphones for each operating system.
3. Smartphones with a high price-to-rating ratio: Write a query to find smartphones where the price is greater than 20 times the rating.
4. Count of smartphones by processor brand: Write a query to count how many smartphones use each processor brand.
5. Find smartphones with both 5G and NFC: Write a query to find smartphones that have both 5G support and NFC capability.
6. Group by RAM capacity and count: Write a query to count how many smartphones have each RAM capacity.
7. Top brands by number of models: Write a query to find the top 3 smartphone brands with the most models.
8. Smartphones with extended memory: Write a query to find smartphones that have extended memory available.
9. Find smartphones with a resolution greater than a specific value: Write a query to find smartphones with a resolution height greater than 2400 pixels.
10. **Filter by price and battery capacity more than average:** Write a query to find smartphones which have price and battery capacity higher than their average.