8-10-25

1. Top 3 brands with the highest average price

```
SELECT brand, AVG(price) AS avg_price
FROM mobiles
GROUP BY brand
ORDER BY avg_price DESC
LIMIT 3;

-- 2. Brands with more than 5 models launched after 2021
SELECT brand, COUNT(model) AS model_count
FROM mobiles
WHERE year > 2021
GROUP BY brand
HAVING COUNT(model) > 5;

-- 3. Top 5 brands with highest avg rating > 4.5
SELECT brand, AVG(rating) AS avg_rating
FROM mobiles
GROUP BY brand
HAVING AVG(rating) > 4.5
ORDER BY avg_rating DESC
LIMIT 5;

-- 4. Brands with total mobile count ordered descending
SELECT brand, COUNT(model) AS total_models
FROM mobiles
GROUP BY brand
ORDER BY total_models DESC;
```

```
-- 5. Brands whose total storage > 1000GB ordered by total storage
SELECT brand, SUM(storage) AS total_storage
FROM mobiles
GROUP BY brand
HAVING SUM(storage) > 1000
ORDER BY total_storage DESC;

-- 6. 5 cheapest avg-priced brands skipping first 2
SELECT brand, AVG(price) AS avg_price
FROM mobiles
GROUP BY brand
ORDER BY avg_price ASC
LIMIT 5 OFFSET 2;

-- 7. Top 5 brands with most models rated above 4.5
SELECT brand, COUNT(model) AS high_rating_models
FROM mobiles
WHERE rating > 4.5
GROUP BY brand
ORDER BY high_rating_models DESC
LIMIT 5;

-- 8. Top 3 brands with avg price > ₹50,000 ordered by avg rating
SELECT brand, AVG(price) AS avg_price, AVG(rating) AS avg_rating
FROM mobiles
GROUP BY brand
HAVING AVG(price) > 50000
```

```
ORDER BY avg_rating DESC
LIMIT 3;

-- 9. Brands released after 2020 with avg rating > 4.3, top 5
SELECT brand, AVG(rating) AS avg_rating
FROM mobiles
WHERE year > 2020
GROUP BY brand
HAVING AVG(rating) > 4.3
ORDER BY avg_rating DESC
LIMIT 5;

-- 10. Brands with >3 mobiles in 2023 sorted by avg price desc
SELECT brand, COUNT(model) AS model_count, AVG(price) AS avg_price
FROM mobiles
WHERE year = 2023
GROUP BY brand
HAVING COUNT(model) > 3
ORDER BY avg_price DESC;

-- 11. Top 10 models by price for brands with avg rating >4.5, skip 5
SELECT brand, model, price
FROM mobiles
WHERE brand IN (
   SELECT brand FROM mobiles
   GROUP BY brand
   HAVING AVG(rating) > 4.5
)
```

```
ORDER BY price DESC
LIMIT 10 OFFSET 5;

-- 12. Top 5 brands with highest avg RAM and avg rating >4.4
SELECT brand, AVG(ram) AS avg_ram, AVG(rating) AS avg_rating
FROM mobiles
GROUP BY brand
HAVING AVG(rating) > 4.4
ORDER BY avg_ram DESC
LIMIT 5;

-- 13. 3 most recent brands whose avg price < ₹30,000
SELECT brand, AVG(price) AS avg_price, MAX(year) AS latest_year
FROM mobiles
GROUP BY brand
HAVING AVG(price) < 30000
ORDER BY latest_year DESC
LIMIT 3;

-- 14. Brands with avg rating >4.5 and total models between 2 and 5
SELECT brand, AVG(rating) AS avg_rating, COUNT(model) AS total_models
FROM mobiles
GROUP BY brand
HAVING AVG(rating) > 4.5 AND COUNT(model) BETWEEN 2 AND 5
ORDER BY avg_rating DESC;

-- 15. Top 5 brands by total RAM, skip top 2
SELECT brand, SUM(ram) AS total_ram
```

```
FROM mobiles
GROUP BY brand
ORDER BY total_ram DESC
LIMIT 5 OFFSET 2;

-- 16. Top 3 years with most mobile launches
SELECT year, COUNT(*) AS total_mobiles
FROM mobiles
GROUP BY year
ORDER BY total_mobiles DESC
LIMIT 3;

-- 17. 5 brands with max storage combinations (avg rating >4.3)
SELECT brand, SUM(storage) AS total_storage, AVG(rating) AS avg_rating
FROM mobiles
GROUP BY brand
HAVING AVG(rating) > 4.3
ORDER BY total_storage DESC
LIMIT 5;

-- 18. 5 most expensive brands by avg price, skip first 5
SELECT brand, AVG(price) AS avg_price
FROM mobiles
GROUP BY brand
ORDER BY avg_price DESC
LIMIT 5 OFFSET 5;

-- 19. Brands with avg RAM ≥8GB ordered by avg price desc (top 5)
```

```
SELECT brand, AVG(ram) AS avg_ram, AVG(price) AS avg_price
FROM mobiles
GROUP BY brand
HAVING AVG(ram) >= 8
ORDER BY avg_price DESC
LIMIT 5;

-- 20. Brands with >4 models sorted by total storage, skip 2
SELECT brand, COUNT(model) AS model_count, SUM(storage) AS total_storage
FROM mobiles
GROUP BY brand
HAVING COUNT(model) > 4
ORDER BY total_storage DESC
LIMIT 5 OFFSET 2;
```