SQL Capstone project

NutritionalFacts Fruit Vegetables Seafood dataset.

--1. Retrieve the food items with the highest calorie content per serving. SELECT foodandserving, calories

FROM cp

WHERE calories = (SELECT MAX(calories) FROM cp);

2. Find the total number of unique food types in the dataset.

SELECT COUNT(DISTINCT sugars) AS sugars FROM cp;

- 3. Calculate the average sodium content per serving for all food items. select avg(sodium1) as sodium1 from cp;
- 4. List the food items that have more than 20% of the daily recommended value for saturated fat.

```
SELECT foodandserving, saturatedfat2
FROM cp
WHERE saturatedfat2 > 20;
```

5. Retrieve the top 10 food items with the highest protein content SELECT foodandserving, protein

FROM cp

WHERE protein >= (SELECT MIN(protein)

FROM (SELECT protein

FROM cp

ORDER BY protein DESC

FETCH FIRST 10 ROWS ONLY));

6. Find the food items with the highest potassium content per serving among those with more than 10g of total carbohydrates.

```
SELECT foodandserving, potassium, TOTALCARBOHYDRATE2 FROM cp
WHERE TOTALCARBOHYDRATE2 > 10
ORDER BY potassium DESC;
```

7. Calculate the total number of calories in the dataset and the percentage of calories contributed by sugars

calories contributed by sugars.

SELECT

SUM(calories) AS total_calories, SUM(sugars)
AS sugar_calories_percentage
FROM cp;

8. List the food items with more than 5g of dietary fibre and order them by their fibre content.

SELECT foodANDSERVING, dietaryfiber FROM cp
WHERE dietaryfiber > 5
ORDER BY dietaryfiber DESC;

9. Retrieve the food items where the calories from fat are more than 30% of the total calories

SELECT calories_from_fat, calories FROM CP WHERE CALORIES > 0.3;

10. Calculate the average percentage of daily recommended vitamin A for all food items.

SELECT AVG(vitaminA) AS average_vitaminA FROM cp;

11. Find the food items with the highest calcium content per serving among those classified as a certain food type

FROM cp
WHERE FOODTYPE = FOODTYPE
ORDER BY calcium DESC
FETCH FIRST 1 ROWS ONLY;

-12.List the top 5 food types with the highest average sodium content per serving.

SELECT foodANDSERVING, AVG(sodium1) AS average_sodiUM1 FROM cp GROUP BY foodANDSERVING ORDER BY average_sodium1 DESC FETCH FIRST 5 ROWS ONLY;

13. Calculate the total number of food items in each food type and order them by the count

SELECT foodtype, COUNT(*) AS total_fooditems FROM cp GROUP BY foodtype ORDER BY total_fooditems DESC;

14. Retrieve the food items where the ratio of calories to protein is the highest.

SELECT foodandserving, calories, protein, (calories / protein) AS calories_to_protein_ratio
FROM cp
WHERE protein != 0
ORDER BY calories_to_protein_ratio DESC
FETCH FIRST 1 ROWS ONLY;

15. Find the food items with the lowest ratio of calories to total carbohydrates among those with less than 10g of sugar.

SELECT foodandserving, calories, TOTALCARBOHYDRATE2, sugars, (calories / TOTALCARBOHYDRATE2) AS calories_to_carbs_ratio
FROM cp
WHERE sugars < 10
ORDER BY calories_to_carbs_ratio ASC
FETCH FIRST 1 ROWS ONLY;