**Mongo DB Assignment 3**

Startup commands

cd D:\ProgramFilesC\mongo\bin mongod

cd D:\ProgramFilesC\mongo\bin mongo

2.1 EXERCISE: UNDERSTANDING DATA - (**1 POINT**).

Answer : This database includes the most relevant data to creating the Food product, including each attribute which have more nested information specifying granularity -> ingredients, courses and nutrients level details. The most common structure is having a nested document or array in the table to add more relevant data

Food product with ID – 0008229105605 looks to be the most recent one on sorting by the attribute created\_t

2.2

1. **(1 point)** The number of products in the collection.

Graphical user interface, application, email

Description automatically generated

2. **(1 point)** The product that has Sharon’s, sorbet, dutch chocolate as name.

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3. **(1 point)** How many times the product having 0009073102079 as \_id has been modified.

Graphical user interface, text, application

Description automatically generatedPay attention: how do you match the value of the \_id? Think about how to do and how you should have done this match in another context.

4. **(1 point)** The products that have the sodium in the nutriments list.

This means that sodium amount with greater than 0 value

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This implies columns where value is 0

Graphical user interface, application

Description automatically generated

5. **(1 point)** The products that have the nutriscore\_grade equal c.

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6. **(1 point)** How many different creators participated in the product creation.

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7. **(2 points)** How many creators have created more than one product.

Text

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8. **(1 point)** The product(s) the most recently modified.

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9. **(1 point)** The products that have exactly 1 ingredient.

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10. **(2 points)** The products that have 20 or more ingredients.

This is the count of complete ingredients, counting ingredients of ingredients

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While this is just the count of major ingredients

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11. **(0,5 points)** How many products are characterized as desserts (dessert is in the \_keyword list).

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12. **(0,5 points)** How many products are characterized by chocolate (chocolate is in the \_keyword list).

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13. **(1 point)** How many products are characterized by chocolate and dessert (chocolate and dessert are in the \_keyword list).

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14. **(1 point)** How many products are characterized by chocolate or dessert (chocolate or dessert are in the (\_keyword list).

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15. **(2 points)** For the documents inside the collection provide a query that converts the

type of field categories from a String to an array and moves data into the new attribute

called new\_att\_category (each category as an element of the array.).

Graphical user interface

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16. **(2 points)** How many products have nutriscore\_grade equal to F and contain ingredients

with palm-oil.

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Description automatically generated

But we do see values for nutriscore\_grade = a

Graphical user interface, text, application

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