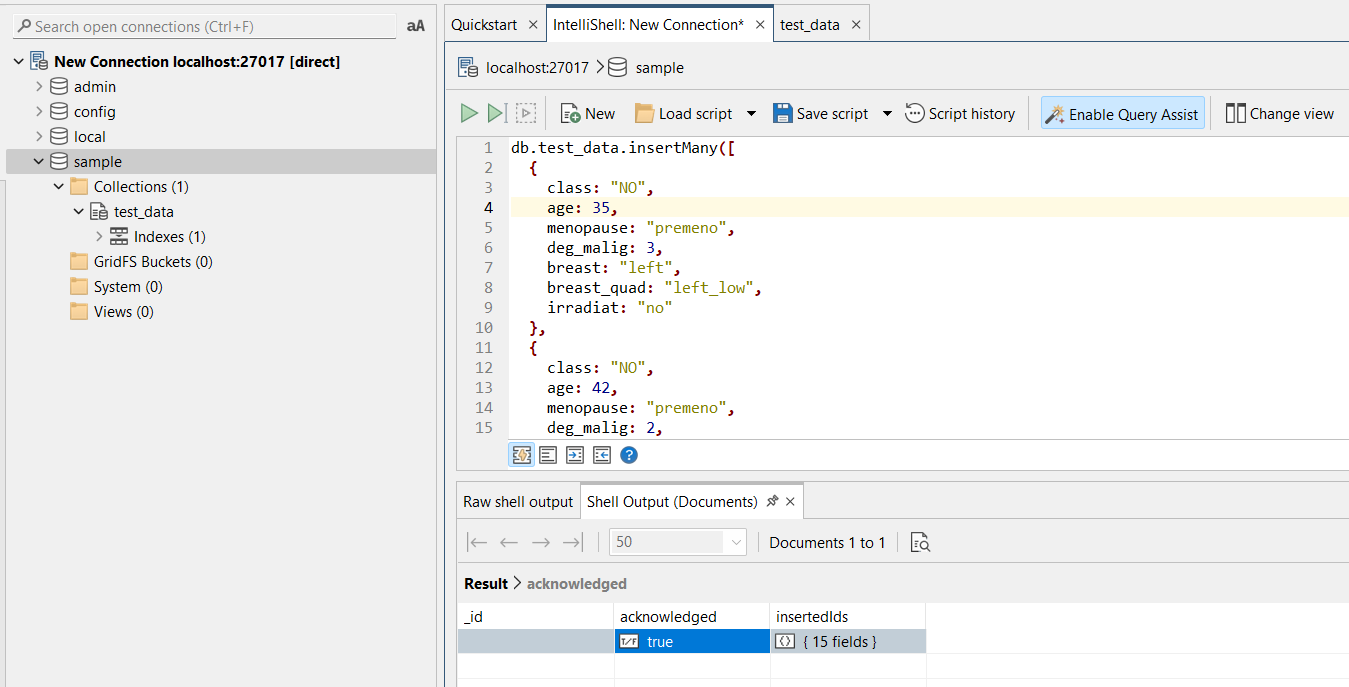
**CIND 119: Introduction to Big Data Analytics**

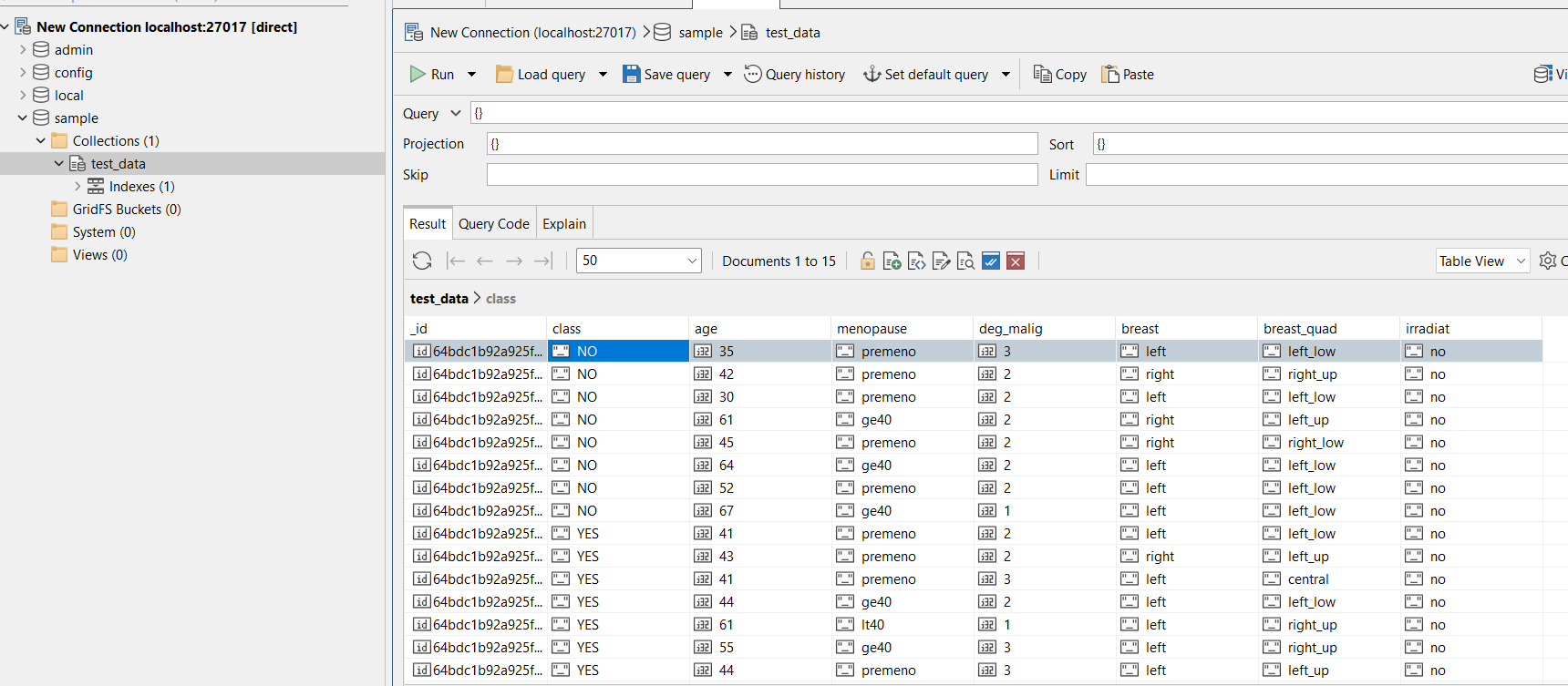
**Assignment 3 (15% of the final grade)**

**Querying a NoSQL database using MongoDB**

**Student: Isolda Veruska de Almirante Silva - 501241365**

**Questions 1 and 2:**





**Below is the entire code to create the test\_data collection:**

db.test\_data.insertMany**([**

**{**

class**:** "NO"**,**

age**:** 35**,**

menopause**:** "premeno"**,**

deg\_malig**:** 3**,**

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breast\_quad**:** "left\_low"**,**

irradiat**:** "no"

**},**

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age**:** 42**,**

menopause**:** "premeno"**,**

deg\_malig**:** 2**,**

breast**:** "right"**,**

breast\_quad**:** "right\_up"**,**

irradiat**:** "no"

**},**

**{**

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age**:** 30**,**

menopause**:** "premeno"**,**

deg\_malig**:** 2**,**

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menopause**:** "ge40"**,**

deg\_malig**:** 2**,**

breast**:** "right"**,**

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**},**

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age**:** 45**,**

menopause**:** "premeno"**,**

deg\_malig**:** 2**,**

breast**:** "right"**,**

breast\_quad**:** "right\_low"**,**

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class**:** "NO"**,**

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menopause**:** "ge40"**,**

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breast**:** "left"**,**

breast\_quad**:** "left\_low"**,**

irradiat**:** "no"

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menopause**:** "premeno"**,**

deg\_malig**:** 2**,**

breast**:** "left"**,**

breast\_quad**:** "left\_low"**,**

irradiat**:** "no"

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age**:** 67**,**

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breast**:** "left"**,**

breast\_quad**:** "left\_low"**,**

irradiat**:** "no"

**},**

**{**

class**:** "YES"**,**

age**:** 41**,**

menopause**:** "premeno"**,**

deg\_malig**:** 2**,**

breast**:** "left"**,**

breast\_quad**:** "left\_low"**,**

irradiat**:** "no"

**},**

**{**

class**:** "YES"**,**

age**:** 43**,**

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breast**:** "right"**,**

breast\_quad**:** "left\_up"**,**

irradiat**:** "no"

**},**

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age**:** 41**,**

menopause**:** "premeno"**,**

deg\_malig**:** 3**,**

breast**:** "left"**,**

breast\_quad**:** "central"**,**

irradiat**:** "no"

**},**

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age**:** 44**,**

menopause**:** "ge40"**,**

deg\_malig**:** 2**,**

breast**:** "left"**,**

breast\_quad**:** "left\_low"**,**

irradiat**:** "no"

**},**

**{**

class**:** "YES"**,**

age**:** 61**,**

menopause**:** "lt40"**,**

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breast**:** "left"**,**

breast\_quad**:** "right\_up"**,**

irradiat**:** "no"

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breast**:** "left"**,**

breast\_quad**:** "right\_up"**,**

irradiat**:** "no"

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deg\_malig**:** 3**,**

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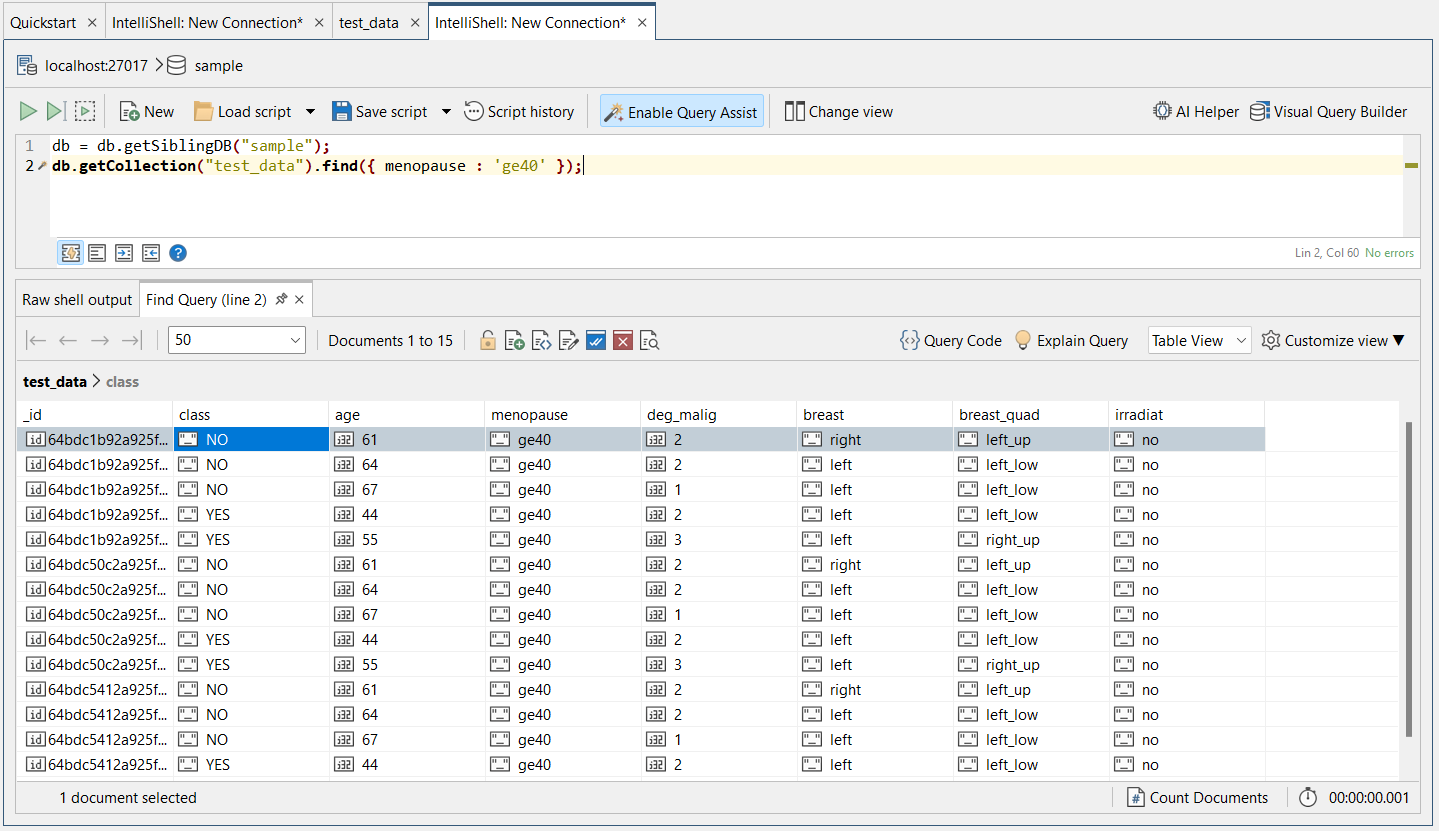
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irradiat**:** "no"

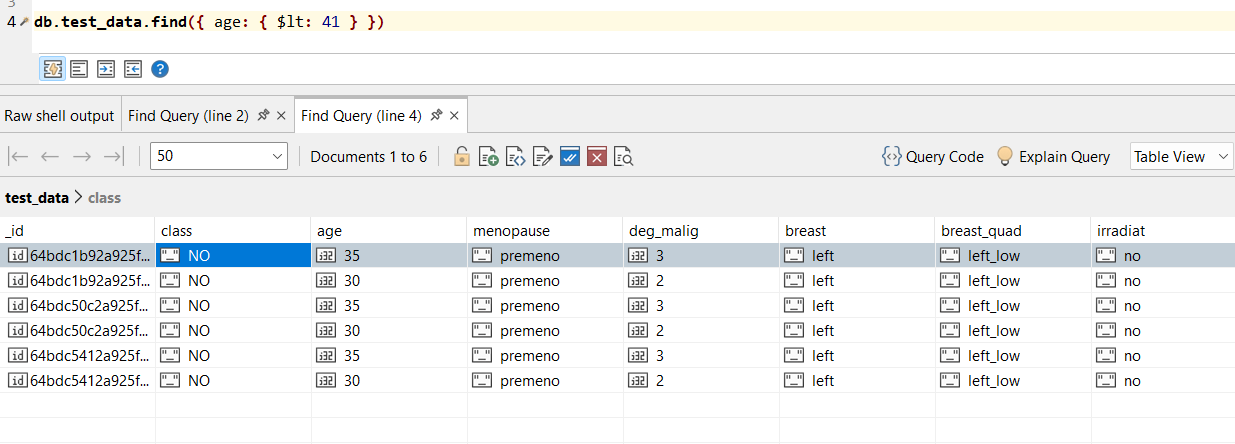
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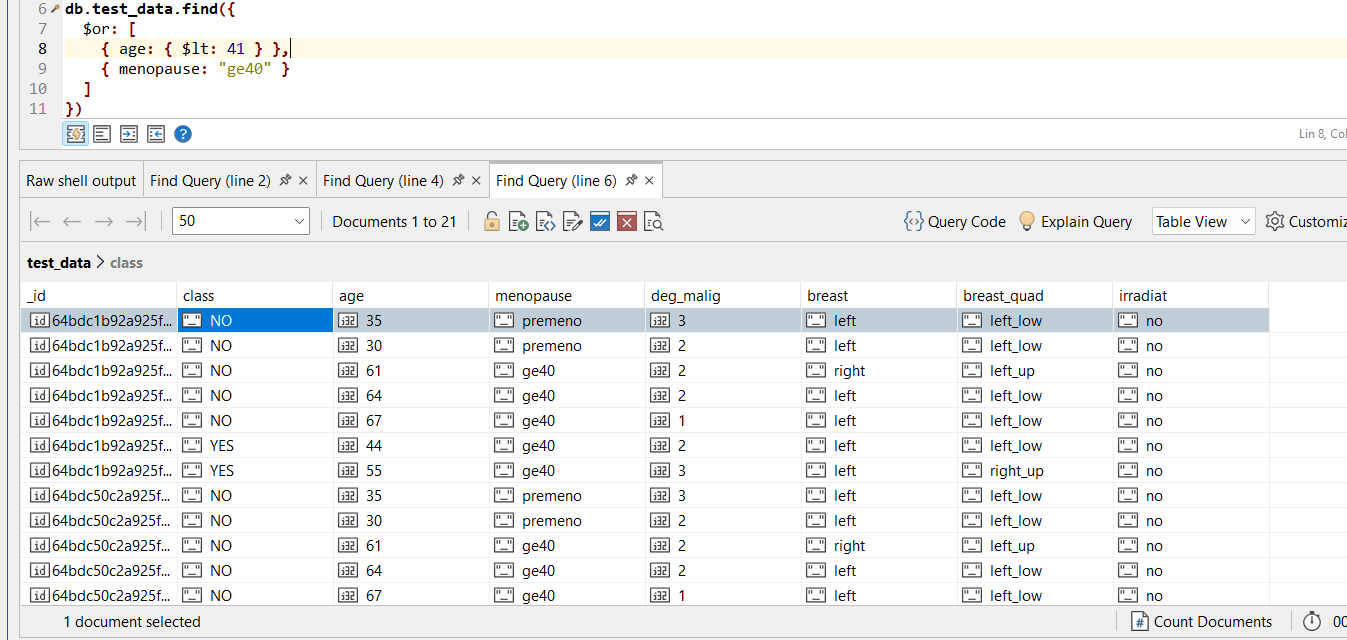
**3.**

**a) **

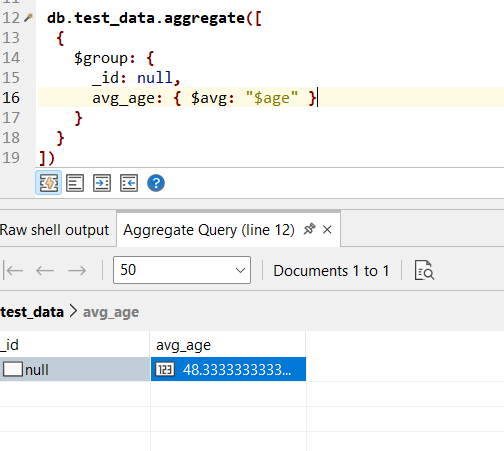
**b)**

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**c)**

****

**d)**

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