**Report - template**

Assignment 3 - MongoDB

The report does not have to be longer than 1-2 pages, excluding screenshots/images.

**Group**: 69

**Students**: Hauk Aleksander Olaussen, Vidar Michaelsen, Noran Baskaran

**Introduction**

Briefly explain the task and the problems you have solved. How did you work as a group?

**Results from Part 1**

Image below shows the user collections. This collection also contains all the activities that belongs to the user.

**Et bilde som inneholder bord

Automatisk generert beskrivelse**

This image shows how the activity object is structured inside the users.

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Automatisk generert beskrivelse**

This image the first 10 trackpoints from our collection trackpoints.

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Automatisk generert beskrivelse**

This image shows how the trackpoints are structured.

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Automatisk generert beskrivelse

**Result from Part 2**

**Task 1:**

Screenshot of terminal showing result of function: count\_all\_entries().

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Automatisk generert beskrivelse**

**Task 2:**

Screenshot of terminal showing result of function: average\_max\_min().

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Automatisk generert beskrivelse**

**Task 3:**

Screenshot of terminal showing result of function: top\_10\_users().

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Automatisk generert beskrivelse**

**Task 4:**

Screenshot of terminal showing result of function: started\_one\_day\_ended\_next().

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Automatisk generert beskrivelse**

**Task 5:**

Screenshot of terminal showing result of function: duplicate\_activities().

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Automatisk generert beskrivelse**

**Task 6:**

Screenshot of terminal showing result of function: covid\_19\_tracking().

**Et bilde som inneholder tekst

Automatisk generert beskrivelse**

**Task 7:**

Screenshot of terminal showing result of function: user\_no\_taxi().

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Automatisk generert beskrivelse**

**Task 8:**

Screenshot of terminal showing result of function: transportation\_mode\_usage().

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Automatisk generert beskrivelse**

**Task 9:** Screenshot of terminal showing result of function: year\_month\_most\_activities() and user\_with\_most\_activities\_11\_2008().

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Automatisk generert beskrivelse**

**Task 10:**

Screenshot of terminal showing result of function: user\_112\_walk\_2008().

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Automatisk generert beskrivelse**

**Task 11:**

Screenshot of terminal showing result of function: top\_20\_users\_altitude().

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Automatisk generert beskrivelse**

**Task 12:**

Screenshot of terminal showing result of function: year\_invalid\_activities().

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Automatisk generert beskrivelse**

**Discussion**

Discuss your solutions. Did you do anything differently than how it was explained in the assignment sheet, in that case why and how did that work? Were there any pain points or problems? What did you learn from this assignment?

**MySQL vs MongoDB**

Discuss the differences between MySQL and MongoDB (relational databases vs NoSQL databases). Which database did you prefer to solve these tasks? What are the pros and cons using one versus the other?

**Feedback**

Optional - give us feedback on the task if you have any. The assignment is new this semester and we would love to improve if there were any problems.