**Report - template**

Assignment 3 - MongoDB

**Group**: 28

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**Introduction**

We found the task very interesting and very demanding. We had to change out point of view from Structural database to non-structural database. We know that the relation database is very good for joins and query optimization. But We found that, data insertion is very fast in NO-SQL compared to what we found in SQL. Though, some of the query that depends on other collection did take longer time. Overall, writing query in BJSON was fun. GitHub Link -https://github.com/nayan2/TDT4225/tree/main/Assignment%203

**Results**

**Task1:** Given screenshots are collection either from PyCharm(pprint) or Studio3T.

User

A picture containing graphical user interface

Description automatically generated

**Activity**

A picture containing graphical user interface

Description automatically generated

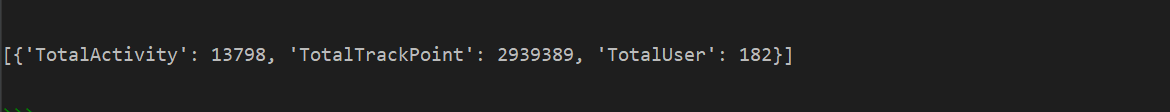
Track-point

A computer screen capture

Description automatically generated with medium confidence

**Task2:**

**Problem 1**

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**Problem 2**

**[{'activityCount': 171, 'userId': '000'},**

**{'activityCount': 71, 'userId': '001'},**

**{'activityCount': 175, 'userId': '002'},**

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**{'activityCount': 86, 'userId': '005'},**

**{'activityCount': 28, 'userId': '006'},**

**{'activityCount': 54, 'userId': '007'},**

**{'activityCount': 34, 'userId': '008'},**

**{'activityCount': 49, 'userId': '009'},**

**{'activityCount': 187, 'userId': '010'},**

**{'activityCount': 201, 'userId': '011'},**

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**{'activityCount': 67, 'userId': '015'},**

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**{'activityCount': 84, 'userId': '019'},**

**{'activityCount': 152, 'userId': '020'},**

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**{'activityCount': 34, 'userId': '023'},**

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**{'activityCount': 757, 'userId': '025'},**

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**{'activityCount': 6, 'userId': '031'},**

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**{'activityCount': 74, 'userId': '035'},**

**{'activityCount': 72, 'userId': '036'},**

**{'activityCount': 148, 'userId': '037'},**

**{'activityCount': 110, 'userId': '038'},**

**{'activityCount': 227, 'userId': '039'},**

**{'activityCount': 27, 'userId': '040'},**

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**{'activityCount': 150, 'userId': '042'},**

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**{'activityCount': 31, 'userId': '058'},**

**{'activityCount': 0, 'userId': '059'},**

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**{'activityCount': 15, 'userId': '063'},**

**{'activityCount': 27, 'userId': '064'},**

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**{'activityCount': 73, 'userId': '071'},**

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**{'activityCount': 91, 'userId': '074'},**

**{'activityCount': 9, 'userId': '075'},**

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**{'activityCount': 5, 'userId': '086'},**

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**{'activityCount': 20, 'userId': '089'},**

**{'activityCount': 8, 'userId': '090'},**

**{'activityCount': 52, 'userId': '091'},**

**{'activityCount': 8, 'userId': '092'},**

**{'activityCount': 23, 'userId': '093'},**

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**{'activityCount': 17, 'userId': '097'},**

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**{'activityCount': 16, 'userId': '099'},**

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**{'activityCount': 5, 'userId': '101'},**

**{'activityCount': 51, 'userId': '102'},**

**{'activityCount': 48, 'userId': '103'},**

**{'activityCount': 0, 'userId': '104'},**

**{'activityCount': 27, 'userId': '105'},**

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**{'activityCount': 5, 'userId': '107'},**

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**{'activityCount': 4, 'userId': '109'},**

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**{'activityCount': 2, 'userId': '114'},**

**{'activityCount': 110, 'userId': '115'},**

**{'activityCount': 0, 'userId': '116'},**

**{'activityCount': 8, 'userId': '117'},**

**{'activityCount': 0, 'userId': '118'},**

**{'activityCount': 45, 'userId': '119'},**

**{'activityCount': 2, 'userId': '120'},**

**{'activityCount': 5, 'userId': '121'},**

**{'activityCount': 16, 'userId': '122'},**

**{'activityCount': 5, 'userId': '123'},**

**{'activityCount': 0, 'userId': '124'},**

**{'activityCount': 67, 'userId': '125'},**

**{'activityCount': 320, 'userId': '126'},**

**{'activityCount': 10, 'userId': '127'},**

**{'activityCount': 695, 'userId': '128'},**

**{'activityCount': 12, 'userId': '129'},**

**{'activityCount': 20, 'userId': '130'},**

**{'activityCount': 21, 'userId': '131'},**

**{'activityCount': 6, 'userId': '132'},**

**{'activityCount': 5, 'userId': '133'},**

**{'activityCount': 75, 'userId': '134'},**

**{'activityCount': 13, 'userId': '135'},**

**{'activityCount': 7, 'userId': '136'},**

**{'activityCount': 1, 'userId': '137'},**

**{'activityCount': 27, 'userId': '138'},**

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**{'activityCount': 26, 'userId': '141'},**

**{'activityCount': 156, 'userId': '142'},**

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**{'activityCount': 3, 'userId': '148'},**

**{'activityCount': 1, 'userId': '149'},**

**{'activityCount': 22, 'userId': '150'},**

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**{'activityCount': 4, 'userId': '152'},**

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**{'activityCount': 42, 'userId': '155'},**

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**{'activityCount': 11, 'userId': '162'},**

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**{'activityCount': 7, 'userId': '164'},**

**{'activityCount': 26, 'userId': '165'},**

**{'activityCount': 8, 'userId': '166'},**

**{'activityCount': 595, 'userId': '167'},**

**{'activityCount': 97, 'userId': '168'},**

**{'activityCount': 36, 'userId': '169'},**

**{'activityCount': 12, 'userId': '170'},**

**{'activityCount': 5, 'userId': '171'},**

**{'activityCount': 21, 'userId': '172'},**

**{'activityCount': 6, 'userId': '173'},**

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**{'activityCount': 8, 'userId': '175'},**

**{'activityCount': 8, 'userId': '176'},**

**{'activityCount': 1, 'userId': '177'},**

**{'activityCount': 1, 'userId': '178'},**

**{'activityCount': 183, 'userId': '179'},**

**{'activityCount': 5, 'userId': '180'},**

**{'activityCount': 15, 'userId': '181'}]**

**Problem 3**

**[{'activityCount': 757, 'userId': '025'},**

**{'activityCount': 695, 'userId': '128'},**

**{'activityCount': 611, 'userId': '085'},**

**{'activityCount': 595, 'userId': '167'},**

**{'activityCount': 586, 'userId': '068'},**

**{'activityCount': 557, 'userId': '041'},**

**{'activityCount': 480, 'userId': '153'},**

**{'activityCount': 435, 'userId': '062'},**

**{'activityCount': 395, 'userId': '004'},**

**{'activityCount': 391, 'userId': '017'},**

**{'activityCount': 380, 'userId': '140'},**

**{'activityCount': 322, 'userId': '003'},**

**{'activityCount': 320, 'userId': '126'},**

**{'activityCount': 296, 'userId': '030'},**

**{'activityCount': 279, 'userId': '014'},**

**{'activityCount': 227, 'userId': '039'},**

**{'activityCount': 204, 'userId': '163'},**

**{'activityCount': 201, 'userId': '011'},**

**{'activityCount': 198, 'userId': '034'},**

**{'activityCount': 187, 'userId': '010'}]**

**Problem 4**

**[{'transportationMode': 'taxi', 'userId': '114'},**

**{'transportationMode': 'taxi', 'userId': '161'},**

**{'transportationMode': 'taxi', 'userId': '167'},**

**{'transportationMode': 'taxi', 'userId': '175'},**

**{'transportationMode': 'taxi', 'userId': '153'},**

**{'transportationMode': 'taxi', 'userId': '111'},**

**{'transportationMode': 'taxi', 'userId': '056'},**

**{'transportationMode': 'taxi', 'userId': '062'},**

**{'transportationMode': 'taxi', 'userId': '075'},**

**{'transportationMode': 'taxi', 'userId': '078'},**

**{'transportationMode': 'taxi', 'userId': '128'},**

**{'transportationMode': 'taxi', 'userId': '139'},**

**{'transportationMode': 'taxi', 'userId': '058'},**

**{'transportationMode': 'taxi', 'userId': '126'},**

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**{'transportationMode': 'taxi', 'userId': '098'},**

**{'transportationMode': 'taxi', 'userId': '102'},**

**{'transportationMode': 'taxi', 'userId': '179'},**

**{'transportationMode': 'taxi', 'userId': '052'},**

**{'transportationMode': 'taxi', 'userId': '080'},**

**{'transportationMode': 'taxi', 'userId': '085'},**

**{'transportationMode': 'taxi', 'userId': '065'},**

**{'transportationMode': 'taxi', 'userId': '021'},**

**{'transportationMode': 'taxi', 'userId': '084'},**

**{'transportationMode': 'taxi', 'userId': '105'}]**

**Problem 5**

**[{'count': 27, 'transportation\_mode': 'train'},**

**{'count': 3, 'transportation\_mode': 'run'},**

**{'count': 1153, 'transportation\_mode': 'bike'},**

**{'count': 1076, 'transportation\_mode': 'bus'},**

**{'count': 340, 'transportation\_mode': 'subway'},**

**{'count': 2471, 'transportation\_mode': 'walk'},**

**{'count': 315, 'transportation\_mode': 'taxi'},**

**{'count': 5, 'transportation\_mode': 'boat'},**

**{'count': 5, 'transportation\_mode': 'airplane'},**

**{'count': 639, 'transportation\_mode': 'car'}]**

**Problem 6**

**[{'activityCount': 6078, 'year': 2008}]**

**[{'hoursCount': 14716, 'year': 2009}]**

**Are the year same - False**

**Problem 7**

**Total Distance walked by user -> 112 is - 305.94822173021913 KM**

**Problem 8**

**[{'maxAltitude': 51535.4, 'userId': '078'},**

**{'maxAltitude': 42529.5, 'userId': '128'},**

**{'maxAltitude': 16968.5, 'userId': '062'},**

**{'maxAltitude': 15147.6377952756, 'userId': '115'},**

**{'maxAltitude': 13408.0, 'userId': '084'},**

**{'maxAltitude': 11371.0, 'userId': '010'},**

**{'maxAltitude': 11010.5, 'userId': '089'},**

**{'maxAltitude': 9589.89501312336, 'userId': '105'},**

**{'maxAltitude': 8158.0, 'userId': '125'},**

**{'maxAltitude': 7007.0, 'userId': '085'},**

**{'maxAltitude': 6452.0, 'userId': '002'},**

**{'maxAltitude': 5810.0, 'userId': '005'},**

**{'maxAltitude': 5196.0, 'userId': '052'},**

**{'maxAltitude': 5192.0, 'userId': '163'},**

**{'maxAltitude': 4235.0, 'userId': '153'},**

**{'maxAltitude': 3937.00787401575, 'userId': '181'},**

**{'maxAltitude': 3561.0, 'userId': '167'},**

**{'maxAltitude': 3371.0, 'userId': '179'},**

**{'maxAltitude': 3132.0, 'userId': '022'},**

**{'maxAltitude': 2367.81082677165, 'userId': '049'}]**

**Problem 9**

**[{'count': 237, 'userId': '167'},**

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**{'count': 10, 'userId': '122'},**

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**{'count': 1, 'userId': '168'},**

**{'count': 5, 'userId': '152'},**

**{'count': 22, 'userId': '139'},**

**{'count': 5, 'userId': '027'},**

**{'count': 1, 'userId': '083'},**

**{'count': 23, 'userId': '056'},**

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**{'count': 4, 'userId': '029'},**

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**{'count': 1, 'userId': '132'},**

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**{'count': 8, 'userId': '092'},**

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**{'count': 21, 'userId': '021'},**

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**{'count': 49, 'userId': '067'},**

**{'count': 2, 'userId': '054'},**

**{'count': 5, 'userId': '177'},**

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**{'count': 7, 'userId': '076'},**

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**{'count': 3, 'userId': '130'},**

**{'count': 11, 'userId': '171'},**

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**{'count': 4, 'userId': '018'},**

**{'count': 22, 'userId': '131'},**

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**{'count': 3, 'userId': '031'},**

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**{'count': 1, 'userId': '162'},**

**{'count': 9, 'userId': '000'},**

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**{'count': 45, 'userId': '073'},**

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**{'count': 3, 'userId': '149'},**

**{'count': 4, 'userId': '071'}]**

**Problem 10**

**[]**

**Problem 11**

**[{'most\_used\_transportation\_mode': 'taxi', 'user\_id': '010'},**

**{'most\_used\_transportation\_mode': 'bike', 'user\_id': '020'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '021'},**

**{'most\_used\_transportation\_mode': 'bus', 'user\_id': '052'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '053'},**

**{'most\_used\_transportation\_mode': 'bike', 'user\_id': '056'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '058'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '060'},**

**{'most\_used\_transportation\_mode': 'bus', 'user\_id': '062'},**

**{'most\_used\_transportation\_mode': 'bike', 'user\_id': '064'},**

**{'most\_used\_transportation\_mode': 'bike', 'user\_id': '065'},**

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**{'most\_used\_transportation\_mode': 'car', 'user\_id': '076'},**

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**Discussion**

No, we did not face any problem, or any deviation from what was in the document. Though, we had to make couple of design choices. Like how we are going to make the foreign key relationship, as in NO-SQL there are literally 100 ways to do so. We did keep the relationship in both ends. Like reference the foreign key and keep a lit other end. So that, we can query easily.

**MySQL vs MongoDB**

MySQL and MongoDBbothhavetheir own pros and cons, it’s basically based on the requirements and task, when you will choose one over the other. For example, if you have a large volume of unstructured data and don’t have much relationship among them, then it’s wise to choose NoSQL. Also, if you must perform a various number of queries frequently, then it’s wise to choose MYSQL or SQL. For the task, we believe based on the volume of data, its basically wiser to choose MongoDB.

**Feedback**

NO, we don’t think, we have any feedback.