**Report - template**

Assignment 3 - MongoDB

**Group**: 28

**Students**: Md. Amjad Hossain, Fatama Toj Johora

**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 -

**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

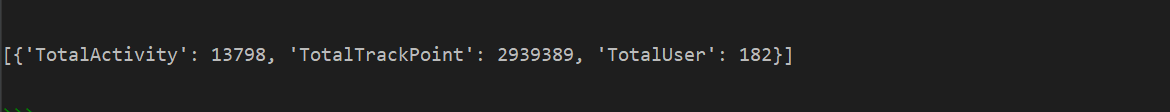
Track-point

A computer screen capture

Description automatically generated with medium confidence

**Task2:**

**Problem 1**

****

**Problem 2**

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

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

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

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

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

**{'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'},**

**{'activityCount': 77, 'userId': '012'},**

**{'activityCount': 144, 'userId': '013'},**

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

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

**{'activityCount': 51, 'userId': '016'},**

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

**{'activityCount': 50, 'userId': '018'},**

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

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

**{'activityCount': 11, 'userId': '021'},**

**{'activityCount': 146, 'userId': '022'},**

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

**{'activityCount': 101, 'userId': '024'},**

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

**{'activityCount': 43, 'userId': '026'},**

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

**{'activityCount': 64, 'userId': '028'},**

**{'activityCount': 45, 'userId': '029'},**

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

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

**{'activityCount': 16, 'userId': '032'},**

**{'activityCount': 13, 'userId': '033'},**

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

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

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

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

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

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

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

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

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

**{'activityCount': 43, 'userId': '043'},**

**{'activityCount': 72, 'userId': '044'},**

**{'activityCount': 9, 'userId': '045'},**

**{'activityCount': 31, 'userId': '046'},**

**{'activityCount': 12, 'userId': '047'},**

**{'activityCount': 3, 'userId': '048'},**

**{'activityCount': 1, 'userId': '049'},**

**{'activityCount': 51, 'userId': '050'},**

**{'activityCount': 51, 'userId': '051'},**

**{'activityCount': 181, 'userId': '052'},**

**{'activityCount': 11, 'userId': '053'},**

**{'activityCount': 3, 'userId': '054'},**

**{'activityCount': 24, 'userId': '055'},**

**{'activityCount': 25, 'userId': '056'},**

**{'activityCount': 22, 'userId': '057'},**

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

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

**{'activityCount': 1, 'userId': '060'},**

**{'activityCount': 20, 'userId': '061'},**

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

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

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

**{'activityCount': 66, 'userId': '065'},**

**{'activityCount': 19, 'userId': '066'},**

**{'activityCount': 32, 'userId': '067'},**

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

**{'activityCount': 11, 'userId': '069'},**

**{'activityCount': 11, 'userId': '070'},**

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

**{'activityCount': 2, 'userId': '072'},**

**{'activityCount': 53, 'userId': '073'},**

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

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

**{'activityCount': 3, 'userId': '076'},**

**{'activityCount': 3, 'userId': '077'},**

**{'activityCount': 61, 'userId': '078'},**

**{'activityCount': 23, 'userId': '079'},**

**{'activityCount': 11, 'userId': '080'},**

**{'activityCount': 29, 'userId': '081'},**

**{'activityCount': 85, 'userId': '082'},**

**{'activityCount': 36, 'userId': '083'},**

**{'activityCount': 180, 'userId': '084'},**

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

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

**{'activityCount': 6, 'userId': '087'},**

**{'activityCount': 0, 'userId': '088'},**

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

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

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

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

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

**{'activityCount': 22, 'userId': '094'},**

**{'activityCount': 36, 'userId': '095'},**

**{'activityCount': 68, 'userId': '096'},**

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

**{'activityCount': 23, 'userId': '098'},**

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

**{'activityCount': 0, 'userId': '100'},**

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

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

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

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

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

**{'activityCount': 0, 'userId': '106'},**

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

**{'activityCount': 9, 'userId': '108'},**

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

**{'activityCount': 0, 'userId': '110'},**

**{'activityCount': 12, 'userId': '111'},**

**{'activityCount': 116, 'userId': '112'},**

**{'activityCount': 32, 'userId': '113'},**

**{'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'},**

**{'activityCount': 29, 'userId': '139'},**

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

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

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

**{'activityCount': 1, 'userId': '143'},**

**{'activityCount': 7, 'userId': '144'},**

**{'activityCount': 6, 'userId': '145'},**

**{'activityCount': 10, 'userId': '146'},**

**{'activityCount': 0, 'userId': '147'},**

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

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

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

**{'activityCount': 1, 'userId': '151'},**

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

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

**{'activityCount': 0, 'userId': '154'},**

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

**{'activityCount': 2, 'userId': '156'},**

**{'activityCount': 13, 'userId': '157'},**

**{'activityCount': 14, 'userId': '158'},**

**{'activityCount': 13, 'userId': '159'},**

**{'activityCount': 3, 'userId': '160'},**

**{'activityCount': 20, 'userId': '161'},**

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

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

**{'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'},**

**{'activityCount': 0, 'userId': '174'},**

**{'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'},**

**{'transportationMode': 'taxi', 'userId': '010'},**

**{'transportationMode': 'taxi', 'userId': '163'},**

**{'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'},**

**{'count': 10, 'userId': '044'},**

**{'count': 1, 'userId': '074'},**

**{'count': 6, 'userId': '061'},**

**{'count': 6, 'userId': '119'},**

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

**{'count': 9, 'userId': '087'},**

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

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

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

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

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

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

**{'count': 73, 'userId': '179'},**

**{'count': 12, 'userId': '069'},**

**{'count': 2, 'userId': '028'},**

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

**{'count': 785, 'userId': '128'},**

**{'count': 1, 'userId': '030'},**

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

**{'count': 2, 'userId': '142'},**

**{'count': 7, 'userId': '117'},**

**{'count': 2, 'userId': '180'},**

**{'count': 1, 'userId': '047'},**

**{'count': 2, 'userId': '039'},**

**{'count': 164, 'userId': '163'},**

**{'count': 2, 'userId': '173'},**

**{'count': 8, 'userId': '143'},**

**{'count': 100, 'userId': '010'},**

**{'count': 2, 'userId': '109'},**

**{'count': 1, 'userId': '026'},**

**{'count': 11, 'userId': '129'},**

**{'count': 16, 'userId': '064'},**

**{'count': 1, 'userId': '004'},**

**{'count': 15, 'userId': '081'},**

**{'count': 2, 'userId': '017'},**

**{'count': 4, 'userId': '057'},**

**{'count': 9, 'userId': '121'},**

**{'count': 1, 'userId': '113'},**

**{'count': 2, 'userId': '016'},**

**{'count': 24, 'userId': '058'},**

**{'count': 408, 'userId': '062'},**

**{'count': 1, 'userId': '014'},**

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

**{'count': 2, 'userId': '037'},**

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

**{'count': 2, 'userId': '072'},**

**{'count': 33, 'userId': '125'},**

**{'count': 24, 'userId': '108'},**

**{'count': 3, 'userId': '033'},**

**{'count': 5, 'userId': '048'},**

**{'count': 24, 'userId': '097'},**

**{'count': 1, 'userId': '103'},**

**{'count': 1, 'userId': '134'},**

**{'count': 36, 'userId': '082'},**

**{'count': 8, 'userId': '035'},**

**{'count': 9, 'userId': '111'},**

**{'count': 9, 'userId': '123'},**

**{'count': 179, 'userId': '084'},**

**{'count': 23, 'userId': '138'},**

**{'count': 1, 'userId': '093'},**

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

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

**{'count': 1, 'userId': '166'},**

**{'count': 40, 'userId': '089'},**

**{'count': 3, 'userId': '151'},**

**{'count': 1, 'userId': '169'},**

**{'count': 6, 'userId': '032'},**

**{'count': 4, 'userId': '159'},**

**{'count': 2, 'userId': '070'},**

**{'count': 96, 'userId': '112'},**

**{'count': 47, 'userId': '078'},**

**{'count': 2, 'userId': '006'},**

**{'count': 1, 'userId': '023'},**

**{'count': 25, 'userId': '141'},**

**{'count': 1, 'userId': '164'},**

**{'count': 18, 'userId': '075'},**

**{'count': 5, 'userId': '136'},**

**{'count': 3, 'userId': '008'},**

**{'count': 5, 'userId': '176'},**

**{'count': 10, 'userId': '042'},**

**{'count': 1, 'userId': '013'},**

**{'count': 1, 'userId': '099'},**

**{'count': 4, 'userId': '170'},**

**{'count': 38, 'userId': '096'},**

**{'count': 11, 'userId': '161'},**

**{'count': 2, 'userId': '043'},**

**{'count': 1, 'userId': '025'},**

**{'count': 1, 'userId': '024'},**

**{'count': 2, 'userId': '041'},**

**{'count': 1, 'userId': '050'},**

**{'count': 1, 'userId': '051'},**

**{'count': 3, 'userId': '002'},**

**{'count': 4, 'userId': '145'},**

**{'count': 1, 'userId': '001'},**

**{'count': 301, 'userId': '153'},**

**{'count': 9, 'userId': '156'},**

**{'count': 5, 'userId': '022'},**

**{'count': 12, 'userId': '055'},**

**{'count': 4, 'userId': '012'},**

**{'count': 1, 'userId': '034'},**

**{'count': 1, 'userId': '011'},**

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

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

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

**{'count': 1, 'userId': '079'},**

**{'count': 7, 'userId': '077'},**

**{'count': 4, 'userId': '040'},**

**{'count': 41, 'userId': '102'},**

**{'count': 12, 'userId': '086'},**

**{'count': 1, 'userId': '140'},**

**{'count': 3, 'userId': '137'},**

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

**{'count': 1, 'userId': '095'},**

**{'count': 24, 'userId': '098'},**

**{'count': 1, 'userId': '090'},**

**{'count': 6, 'userId': '133'},**

**{'count': 2, 'userId': '165'},**

**{'count': 9, 'userId': '038'},**

**{'count': 3, 'userId': '066'},**

**{'count': 6, 'userId': '107'},**

**{'count': 4, 'userId': '101'},**

**{'count': 449, 'userId': '085'},**

**{'count': 3, 'userId': '007'},**

**{'count': 79, 'userId': '065'},**

**{'count': 3, 'userId': '144'},**

**{'count': 9, 'userId': '080'},**

**{'count': 3, 'userId': '063'},**

**{'count': 2, 'userId': '060'},**

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

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

**{'count': 19, 'userId': '053'},**

**{'count': 7, 'userId': '120'},**

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

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

**{'count': 179, 'userId': '052'},**

**{'count': 1, 'userId': '157'},**

**{'count': 1, 'userId': '172'},**

**{'count': 2, 'userId': '181'},**

**{'count': 8, 'userId': '015'},**

**{'count': 3, 'userId': '036'},**

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

**{'count': 203, 'userId': '126'},**

**{'count': 547, 'userId': '068'},**

**{'count': 36, 'userId': '105'},**

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

**{'count': 205, 'userId': '115'},**

**{'count': 5, 'userId': '005'},**

**{'count': 7, 'userId': '175'},**

**{'count': 6, 'userId': '135'},**

**{'count': 3, 'userId': '049'},**

**{'count': 1, 'userId': '046'},**

**{'count': 1, 'userId': '045'},**

**{'count': 4, 'userId': '160'},**

**{'count': 3, 'userId': '146'},**

**{'count': 38, 'userId': '091'},**

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

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

**{'count': 1, 'userId': '158'},**

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

**{'count': 2, 'userId': '155'},**

**{'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'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '067'},**

**{'most\_used\_transportation\_mode': 'bike', 'user\_id': '068'},**

**{'most\_used\_transportation\_mode': 'bike', 'user\_id': '069'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '073'},**

**{'most\_used\_transportation\_mode': 'subway', 'user\_id': '075'},**

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

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '078'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '080'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '081'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '082'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '084'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '085'},**

**{'most\_used\_transportation\_mode': 'car', 'user\_id': '086'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '087'},**

**{'most\_used\_transportation\_mode': 'car', 'user\_id': '089'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '091'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '092'},**

**{'most\_used\_transportation\_mode': 'bike', 'user\_id': '096'},**

**{'most\_used\_transportation\_mode': 'bike', 'user\_id': '097'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '098'},**

**{'most\_used\_transportation\_mode': 'car', 'user\_id': '101'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '102'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '105'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '107'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '108'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '111'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '112'},**

**{'most\_used\_transportation\_mode': 'taxi', 'user\_id': '114'},**

**{'most\_used\_transportation\_mode': 'car', 'user\_id': '115'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '117'},**

**{'most\_used\_transportation\_mode': 'bike', 'user\_id': '125'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '126'},**

**{'most\_used\_transportation\_mode': 'car', 'user\_id': '128'},**

**{'most\_used\_transportation\_mode': 'bike', 'user\_id': '129'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '136'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '138'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '139'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '141'},**

**{'most\_used\_transportation\_mode': 'car', 'user\_id': '144'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '153'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '161'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '163'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '167'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '170'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '175'},**

**{'most\_used\_transportation\_mode': 'walk', 'user\_id': '179'}]**

**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.