Task 2: Ingest the relevant data (card_member and member_score) from AWS RDS to Hadoop. {this task is done and given to you in form of CSV files named "card_member" and "member_score"}.

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Task 3: Create a look-up table in MongoDB {NoSQL database} with columns specified earlier in the problem statement.

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Pre-Analysis is done with Pandas and lookupTable is created with required columns before loading into Mongo.

	member_id	score	ucl	card_id	postcode	transaction_dt2
0	37495066290	339	1.301153e+07	348702330256514	33946	2018-11-02 00:00:00
1	117826301530	289	1.230049e+07	5189563368503974	30234	2018-06-01 09:15:04
2	1147922084344	393	1.189271e+07	5407073344486464	63770	2018-01-18 10:55:30
3	1314074991813	225	1.279424e+07	378303738095292	41778	2018-06-01 14:31:05
4	1739553947511	642	1.504144e+07	348413196172048	92258	2018-12-01 21:29:58
994	992104321998571	658	1.349084e+07	5115273575078211	42082	2018-08-01 15:40:29
995	992552823055811	694	1.512892e+07	374878208630443	12747	2018-04-01 22:08:21
996	994983851226493	687	1.363332e+07	5399715069800093	77432	2018-01-30 09:05:15
997	996411635289270	335	1.513406e+07	4981548424137027	92694	2017-12-18 00:01:04
998	997128952368160	683	1.425606e+07	5391723993945313	42323	2018-08-01 12:09:49
999 r	ows × 6 columns					
	ermining the na _name = 'lookup					
<pre>#saving the excel final_lookup_df.to_csv(file_name) print('DataFrame lookup_df - is written to Excel File successfully.')</pre>						

```
C:\Program Files\MongoDB\Server\5.0\bin>mongoimport --db CREDIT_CARD_DB --collection lookup_table --type csv --file "C:\Users\Jagad\MS Program\Assignments\CapstoreProject_1stYearProject\CreditCardFr aud_Template\lookupTable4.csv" --headerline
2022-12-03T23:08:31.680-0500 connected to: mongodb://localhost/
2022-12-03T23:08:31.737-0500 999 document(s) imported successfully. 0 document(s) failed to import.

C:\Program Files\MongoDB\Server\5.0\bin>
```

Task 4: After creating the table, you need to load the relevant data in the lookup table.

```
> db.lookup_table.count()
999
>
```

```
ard transactions
 ookup table
 db.lookup table.find()
  " id" : ObjectId("638c1d3f9b314ecef494171a"), "" : 0, "member id" : NumberLong("37495066290"), "score" : 339, "ucl" : 13011526.339291777, "card id" : NumberLong("348702330256514"), "postcode" : 339
  , "transaction dt2" : "2018-11-02 00:00:00" }
 " id" : ObjectId("638c1d3f9b314ecef494171b"), "" : 3, "member id" : NumberLong("1314074991813"), "score" : 225, "ucl" : 12794239.889645452, "card id" : NumberLong("378303738095292"), "postcode" : 4
.778, "transaction_dt2" : "2018-06-01 14:31:05" ]
 "id": ObjectId("638c1d3f9b314ecef494171c"), "": 2, "member id": NumberLong("1147922084344"), "score": 393, "ucl": 11892709.546673544, "card id": NumberLong("5407073344486464"), "postcode":
53770, "transaction_dt2" : "2018-01-18 10:55:30"
 " id" : ObjectId("638c1d3f9b314ecef494171d"), "" : 4, "member id" : NumberLong("1739553947511"), "score" : 642, "ucl" : 15041443.076209597, "card id" : NumberLong("348413196172048"), "postcode" : 9
2258, "transaction dt2" : "2018-12-01 21:29:58" }
 "id": ObjectId("638c1d3f9b314ecef494171e"), "": 5, "member_id": NumberLong("3761426295463"), "score": 413, "ucl": 13928702.895311527, "card_id": NumberLong("348536585266345"), "postcode": 3
8863, "transaction dt2" : "2018-11-01 17:24:36" }
 "_id" : ObjectId("638c1d3f9b314ecef494171f"),
                                                "" : 6, "member id" : NumberLong("4494068832701"), "score" : 217, "ucl" : 10937142.461807987, "card id" : NumberLong("5515987071565183"), "postcode" :
30668, "transaction dt2" : "2017-10-21 15:37:42" }
 "id": ObjectId("638c1d3f9b314ecef4941720"), "": 7, "member id": NumberLong("6836124210484"), "score": 504, "ucl": 10009917.54804042, "card id": NumberLong("5400251558458125"), "postcode": 1
7749, "transaction dt2" : "2018-08-01 15:40:29" }
 "_id" : ObjectId("638c1d3f9b314ecef4941721"), "" : 8, "member_id" : NumberLong("6991872634058"), "score" : 697, "ucl" : 12461184.53195883, "card_id" : NumberLong("4573337022888445"), "postcode" : 1
4126, "transaction dt2" : "2018-01-26 20:49:08"
 "_id" : ObjectId("638c1d3f9b314ecef4941722"), "" : 10, "member_id" : NumberLong("8732267588672"), "score" : 213, "ucl" : 13091644.454693366, "card_<u>id" : NumberLong("5342400571435088"), "postcode"</u>
13155, "transaction dt2" : "2018-10-01 01:01:51" }
 "_id": ObjectId("638c1d3f9b314ecef4941723"), "": 9, "member_id": NumberLong("7955566230397"), "score": 372, "ucl": 12875679.909525491, "card_id": NumberLong("4708912758619517"), "postcode":
31650, "transaction dt2" : "2018-11-01 00:00:00" }
 "id": ObjectId("638c1d3f9b314ecef4941724"), ": 1, "member id": NumberLong("117826301530"), "score": 289, "ucl": 12300487.018047417, "card id": NumberLong("5189563368503974"), "postcode": 3
0234, "transaction dt2" : "2018-06-01 09:15:04" }
 "_id" : ObjectId("638c1d3f9b314ecef4941725"), "" : 13, "member_id" : NumberLong("9190444424572"), "score" : 559, "ucl" : 13042904.354232315, "card_id" : NumberLong("341363858179050"), "postcode" :
43967, "transaction dt2" : "2018-01-21 23:11:37" }
 "_id" : ObjectId("638c1d3f9b314ecef4941726"), "" : 14, "member_id" : NumberLong("9250698176266"), "score" : 233, "ucl" : 16765515.132200925, "card_id" : NumberLong("340028465709212"), "postcode" :
24658, "transaction_dt2" : "2018-02-01 03:25:35"
 "_id" : ObjectId("638c1d3f9b314ecef4941727"), "" : 15, "member_id" : NumberLong("9873334520465"), "score" : 298, "ucl" : 14507890.127987808, "card_id" : NumberLong("5495445301620991"), "postcode" :
93543, "transaction dt2" : "2018-06-01 12:45:45" }
 "id": ObjectId("638c1d3f9b314ecef4941728"), "": 17, "member id": NumberLong("11877954983420"), "score": 497, "ucl": 12542974.715323305, "card id": NumberLong("5164771396791995"), "postcode"
 61375, "transaction dt2" : "2018-10-01 04:32:32" }
 " id": ObjectId("638c1d3f9b314ecef4941729"), "": 16, "member id": NumberLong("11716573646690"), "score": 249, "ucl": 12755932.16131873, "card id": NumberLong("4795844193055110"), "postcode"
 16874, "transaction dt2" : "2018-09-01 00:27:10" }
  "_id" : ObjectId("638c1d3f9b314ecef494172a"), "" : 18, "member_id" : NumberLong("12390918683920"), "score" : 407, "ucl" : 14644725.444534216, "card id" : NumberLong("5423921058459194"), "postcode"
 47465, "transaction dt2" : "2018-11-01 03:21:54" }
  " id" : ObjectId("638c1d3f9b314ecef494172b"), "" : 19, "member id" : NumberLong("12731668664932"), "score" : 612, "ucl" : 14430228.668971352, "card id" : NumberLong("5379610024035907"), "postcode"
 33827, "transaction_dt2" : "2018-01-19 06:14:11" }
  " id" : ObjectId("638c1d3f9b314ecef494172c"), "" : 21, "member id" : NumberLong("15235737327750"), "score" : 244, "ucl" : 15159145.91846099, "card id" : NumberLong("4877961603808028"), "postcode" :
 49637, "transaction_dt2" : "2018-07-01 01:03:05"
  " id" : ObjectId("638c1d3f9b314ecef494172d"), "" : 20, "member id" : NumberLong("12871894714576"), "score" : 689, "ucl" : 14362904.575688194, "card id" : NumberLong("4380357644954006"), "postcode"
 98953, "transaction dt2" : "2018-11-01 15:39:15" }
 ype "it" for more
```