**Student Names:**

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Option opted:- **Option 1**

**Option 1:**Load the data in a relational DBMS such as MySQL. Then write three different queries to extract the data needed for each document collection in relational format, and then convert the query result from the relational format into JSON for loading on MongoDB. But **you must create the nested structure within each object**. You can **use ORDER BY to order the result of the relational query by the nesting (root) attributes**, then you can create the JSON document in a single scan algorithm on the result of each query.

**Running Instructions**:

Folder Structure:

**Python code for converting to JSON format**

DB2\_project2/project\_data.py

E.g.: python project\_data.py

Output file obtained:- DB2\_project2/project\_doc.json

Similar input files: DB2\_project2/department\_data.py

DB2\_project2/employee\_data.py

Similar output files obtained: DB2\_project2/department\_doc.json

DB2\_project2/employee\_doc.json

**Python** **code for Importing to MongoDB**

DB2\_project2/project.py

E.g.: python project.py

Similar input files: DB2\_project2/department.py

DB2\_project2/employe.py

Output:- Output can be seen using MongoDB compass

Under Company schema -> project\_data(collection)

Similar for others:

Under Company schema -> department\_data(collection)

Under Company schema -> employee\_data(collection)

This folder also contains the given input TXT files i.e EMPLOYEE.txt, DEAPARTMENT.txt, PROJECT.txt, WORKS\_ON.txt, Report file(DB2\_proj2.docx)

**References:**

1) https://docs.mongodb.com/compass/current/query/filter/

2) Fundamentals of database systems(sixth edition).

3) <https://stackoverflow.com/questions/57040311/mongodb-compass-filter-query>

4) https://newbedev.com/python-converting-mysql-query-result-to-json

**Division of work:**

**Surbhi Zambad**:- MySQL, MongoDB, error debugging

**Aparna Bhat**:- MongoDB installation, report, MongoDB