

Opened: Tuesday, 22 March 2022, 3:30 PM

Guidelines

Part 1: Model

- Provide the Data Dictionary in the form of a table (the list of all attributes with their description);
- Build the Conceptual Data Model - CDM (the schema/drawing). Here you have to mention the normalisation steps, your hypothesis on the model and the constraints that you couldn't consider into your model (that is to say the model's limitations). To create your CDM you can use software like [AnalyseSI](#);
- Transform the CDM into the Logical Data Model - LMD (MCD and MLD in French). Here is a useful link: <http://www-igm.univ-mlv.fr/~chochois/RessourcesCommunes/BDD/Modelisation/coursMLD.pdf>;
- Write the creation script for mysql;
- Insert data into your tables (around 10 entries/table). Make sure that your entries are coherent, even if you do not use real data (insert script).

Part 2: Queries

For your database, create queries (in English) and provide SQL solutions for as it follows:

- 5 basic queries;
- 5 WHERE clause queries;
- 5 ORDER BY queries;
- 5 Multi-Table queries;
- 5 Queries with Numeric expressions and functions;
- 5 GROUP BY queries;
- 5 nested queries.

Part 3: mongoDB

From your model, choose 3 representative entities (tables) and provide the following:

- The 3 .json files containing all your data (1 file per entity);
- The insert script (for this, you shall use the mongoimport command to import the 3 .json files).

From the 3 entities choose one and provide a python script (use pyMongo) containing the connection to the database and (see the lecture slides) 5 queries with their corresponding results

Submission files:

- 1 .pdf file containing your report in English (the Data Dictionary, the CDM, the hypothesis and the model limitations, the LDM, the queries with their respective solutions - both for SQL and mongoDB). This file should have the elements of a report: front page, table of contents, sections, introduction, conclusion, formatting, etc.;
- 1 .txt file containing the create script, the insert script and the SQL query solutions;
- 3 .json files for your 3 representative entities (for mongoDB);
- 1 .py file containing the python script (pyMongo, including the queries).

Do not forget that all the members of a group must confirm the submission.

The total size of your submission must be < 20MB.

The submission must have exactly 6 files, each in the right format (described above).

Deadline

The submission platform is available from March 22nd, 15:30 to May 4th, 23:55 (French local time).

This is a strong deadline, submissions are not accepted afterwards.

Submission status

Group	Project - Group 3
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Submission status	Submitted for grading
Grading status	Not graded
Last modified	Wednesday, 4 May 2022, 11:35 AM
File submissions	<div><div></div><div>6 files</div></div>
Submission comments	<div><div></div><div>Comments (0)</div></div>

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