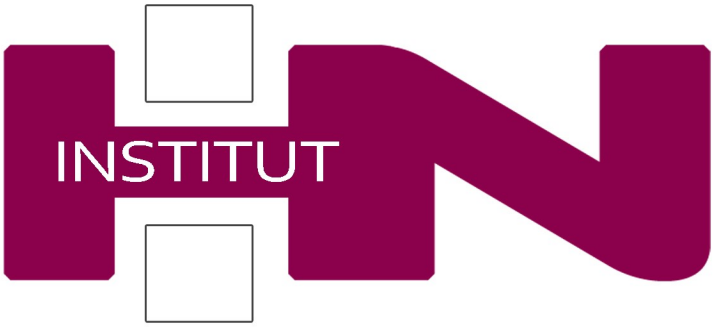
EBDS - SQL
Final evalution

Duration: 3h



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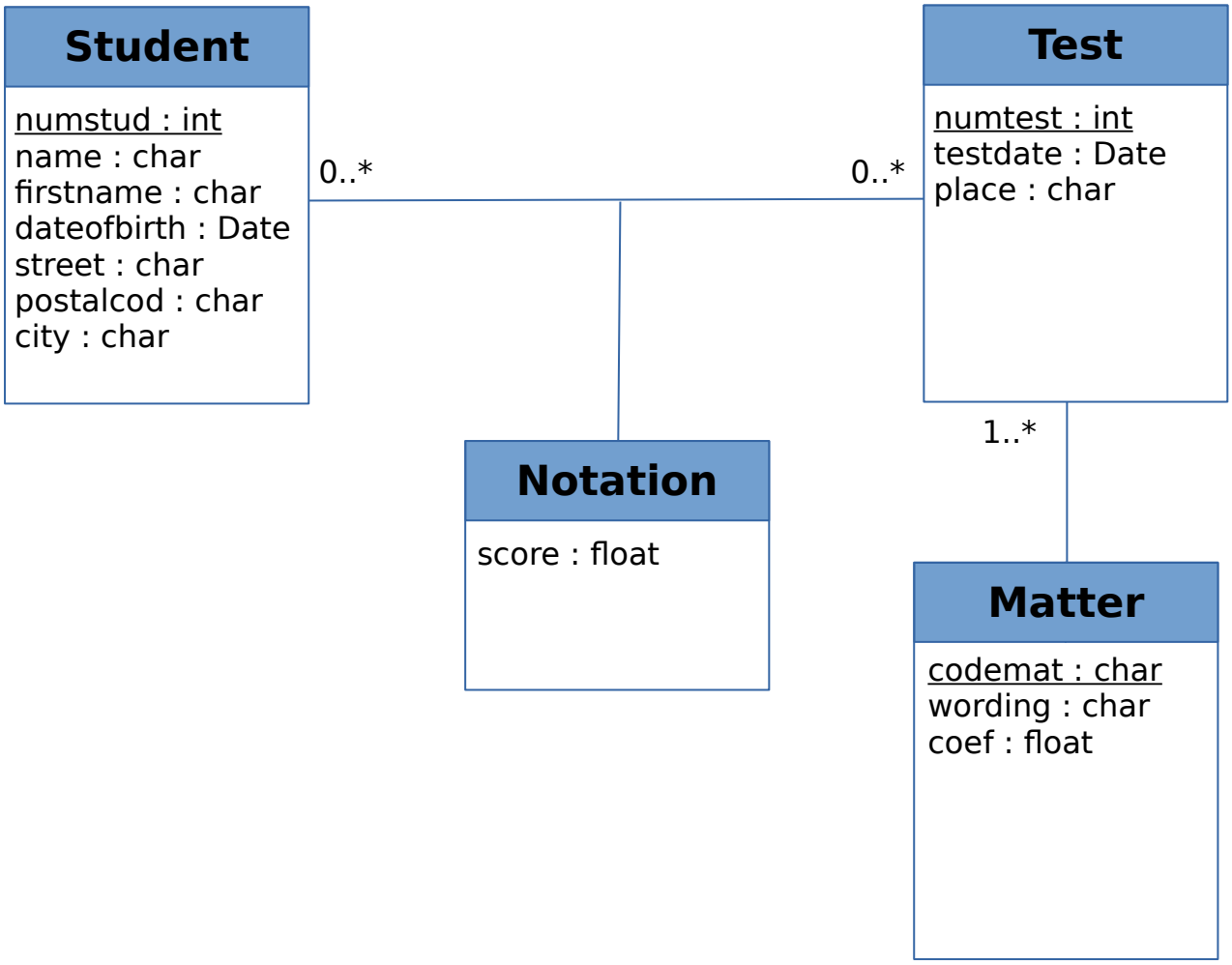
1.Exercise 1 (10 minutes) – 1 point /30

We must build all the tables constituting the following relational model:



Matter (codemat, wording, coef)
Student (numstud, name, firsname, dateofbirth, street, postalcod, city)
Test (numtest, testdate, place **codemat**)
Notation (**numstud**, **numtest**, score)

The underlined columns are to be declared in primary key. The bold columns are foreign keys.

For that, produce the text file, CreateBD.txt, containing the SQL orders allowing the creation of the **database** and the corresponding **tables**

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2.Exercise 2 (50 minutes) – 1 point /30

Fill the tables with a dataset :

- It takes 7 students, including 3 in the same city and 3 whose names are: Dupont, Durand, and Martin. It also takes 2 cities whose name contains « LL »
- There must be 3 subjects with a coefficient greater than or equal to 1 and at least one of which it is greater than 1
- 30 marks are required, 18 of which are greater than or equal to 10, 2 equal to 20, and 2 tests with 2 different subjects and less than 6 students marked per test
- 5 tests are required, 3 of which have the date between 1/1/2014 and 30/6/2014 (inclusive).
- You also need 2 subjects with more than one test.

For that, produce the text file, InsertTB.txt, containing the SQL orders allowing the creation of the records of each table

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3.Exercice 3 (20 minutes) – 5 points /30

Queries about Students:

- List of all students (1 point)
- List of all students, sorted in reverse alphabetical order (1 point)
- Last name and first name of students domiciled in Lyon (1 point)
- Last name, first name and city of students whose city contains the string « LL » (1 point)
- First name of students with Dupont, Durand or Martin names (1 point)

For that, produce the text file, SelectEtu.txt, containing the SQL orders allowing to answer the above request

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4. Exercice 4 (40 minutes) – 6 points /30

Queries about matter :

- Wording and coefficient (expressed as a percentage) of each subject (3 points)
- Sum of coefficients of all subject (3 points)

To do this, produce the text file, SelectMat.txt, containing the SQL commands used to respond to the above request.

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5.Exercice 5 (60 minutes) – 17 points /30

Queries on score and tests :

- Total number of tests (1 point)
- List of score, specifying for each the name and first name of the student who obtained it (1 point)
- List of score, specifying for each the name and first name of the student who obtained it and the wording of the matter concerned (1 point)
- List of score greater than or equal to 10 (1 point)
- Last name and first name of the students who obtained at least a score equal to 20 (1 point)
- Average scores for each student (indicate name and first name) (1 point)
- List of tests whose date is between January 1 and June 30, 2014 (1 point)
- List of tests (number, date and place) including the matter of the subject (1 point)
- Average scores for each student (indicate name and first name), ranked from best to worst (1 point)
- Average scores for matter (indicate the wording) comprising more than one test (4 points)
- Average of score obtained in the tests (indicate the number of the test) where less than 6 students were rated (4 points)

To do this, produce the text file, SelectNot.txt, containing the SQL commands used to respond to the above request.

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