EXAM 3ND TERM DQL PART

MODEL X MOCK (SIMULACRO)

BASES DE DATOS 22/23 CFGS DAW

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DQL PART

FIND DATABASE SCRIPTS IN A SEPARATED FILE

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IMPORTANT!

2h start only when:

- 1. You have all the materials downloaded
- 2. The script is executed on your workbench
- 3. Internet is disconnected and cell phone is off

Until then, you shouldn't see the exam!

Go now for the script and come back later :-)

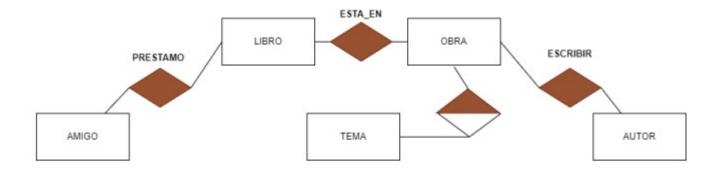


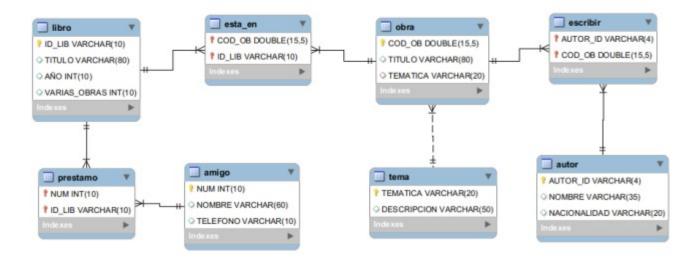
REQUIREMENTS (READ CAREFULLY BEFORE STARTING)

- → Model A & B
- → Queries: 10 queries (basic version 0,75 points + advanced version 1,25 points)
- → Duration of the exam: 2 hours (12 min per query on average)
- → Mistakes on SELECT -0.10 points; Other mistakes -0.25 points
- → Minimum to pass: 4 out of 10 to pass the exam
- → Only one DB; DDL + DML provided; No tips; No detailed output
- → No Internet connection
- → Only workbench, offline docs, one printed/handwritten A4 double sided allowed
- → Handing one single script (plain text) with all queries and optional comments
- → USE DQL DECALOGUE!

MODEL X: BIBLIOTECA

Find DDL + DML in a separated file.





QUERIES 1A [2 POINTS] CARTESIAN VS JOIN, IS NULL, LIKE & FORMATTING THE OUTPUT

1A.1) Requirements (0,75 POINTS):

Using the appropriate aliases, obtain the name and nationality of authors who have written a book and who are NOT of "Española" nationality.

Usando los alias adecuados, obtener el nombre y nacionalidad de los autores que han escrito algún libro y que NO sean de nacionalidad "Española".

USE CARTESIAN

USE [NOT] LIKE

AVOID USING GROUP BY

Use a single script

1A.2) Requirements (1,25 POINTS):

Using the appropriate aliases, obtain the names of authors who have written any book, who are NOT of "Española" nationality, whose name begins with a vowel or both. Add the word "Nacionalidad" in front of the nationality in the select to show something like "Nacionalidad Española". Exclude those with no nationality.

Usando los alias adecuados, obtener el nombre de los autores que han escrito algún libro, que NO sean de nacionalidad "Española", cuyo nombre empieza por una vocal o ambas cosas. Añade la palabra "Nacionalidad " delante de la nacionalidad en el select para que muestre algo como "Nacionalidad Española". Excluye aquellos que no tengan nacionalidad.

USE JOIN

USE [NOT] IS NULL

FORMAT THE OUTPUT

QUERIES 2A [2 POINTS] GROUPING AND SORTING

2A.1) Requirements (0,75 POINTS):

Using the appropriate aliases, display the names of authors who have written more than 10 books.

Usando los alias adecuados, muestra el nombre de los autores que han escrito más de 10 libros.

USE CARTESIAN

USE GROUP BY

Use a single script

2A.2) Requirements (1,25 POINTS):

Using the appropriate aliases, show the names of authors who have written more than 10 books, who are Spanish ("Española"). List first those who have sold the most books.

Usando los alias adecuados, muestra el nombre de los autores que han escrito más de 10 libros, que son españoles (nacionalidad "Española"). Lista primero los que más libros han vendido.

USE JOIN

QUERIES 3A [2 POINTS] PARTIAL JOINS AND UNIONS

TIP: Number of rows are the same in both cases

3A.1) Requirements (0,75 POINTS):

Using the appropriate aliases, show the code of each collection (obra) and a counter with the number of books it has, including collections (obras) without books.

Usando los alias adecuados, indica el código de cada obra y un contador con los libros que tiene, incluyendo las obras sin libros.

USE LEFT/RIGHT JOIN

Use a single script

3A.2) Requirements (1,25 POINTS):

Using the appropriate aliases, rewrite the same query sorted by number of collections (obras), placing books with NO associated collection first.

Usando los alias adecuados, reescribe la misma consulta ordenada por número obras (SIN obras primero).

USE UNION

QUERIES 4A [2 POINTS] SUBQUERIES AND OPTIMUM CARTESIANS

TIP: Number of rows are the same in both cases

4A.1) Requirements (0,75 POINTS):

Using the appropriate aliases, get the names of "amigos" who have borrowed a work, indicating from how many different authors.

Usando los alias adecuados, obtén el nombre de los "amigos" que han tomado prestada alguna obra, indicando de cuántos autores distintos.

USE CARTESIAN

Use a single script

4A.2) Requirements (1,25 POINTS):

Using the appropriate aliases, rewrite the same query ordering results by number of authors (first most) and, in case of a tie, by friend's name (alphabetical).

Usando los alias adecuados, reescribe la misma consulta ordenando los resultados por número de autores (más primero) y, en caso de empate, por nombre del amigo (alfabético)

MAKE THE CARTESIAN AS OPTIMUM AS POSSIBLE

QUERIES 5A [2 POINTS] USING VIEWS AND MAX

TIP: Number of rows are the same in both cases

5A.1) Requirements (0,75 POINTS):

Using the appropriate aliases, get the title and identifier of the books that are in any given collection (obra), along with a counter indicating how many it is in.

Usando los alias adecuados, obtener el título y el identificador de los libros que estén en alguna obra, junto con un contador que indique en cuántas está.

CREATE AND USE A VIEW

Use a single script

5A.2) Requirements (1,25 POINTS):

Use the above view to get the book that appears in more collections (obras).

Usa la vista anterior para obtener libro que aparece en más obras.

USE A VIEW

USE MAX