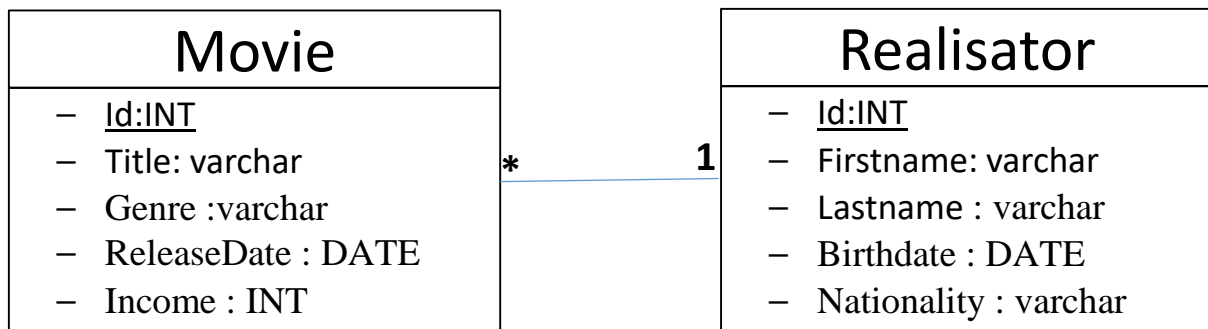# APP : SQL exam

Instructions : You have 1h to answer all of the following question and deposit an SQL file on Moodle. All documents and the internet are permitted, but your work must be individual.

1) We want to create a database to store movies and their realisators. Write down the requests to create the INNODB tables matching the E/R diagram below. Do not forget to define the primary keys, constraints and foreign keys that seem relevant to you.

Movie		Realisator
– <u>Id:INT</u>		– <u>Id:INT</u>
– Title: varchar		– Firstname: varchar
– Genre :varchar	* 1	– Lastname : varchar
– ReleaseDate : DATE		– Birthdate : DATE
– Income : INT		– Nationality : varchar

2) Write down the requests to input the following elements in your database. You may use a GUI (SQL creator or PHPMyAdmin), but don't forget to copy past the requests to your SQL file.

James	Cameron	16/08/1954	Canadian
Georges	Lucas	14/05/1945	American
Alfred	Hitchcok	13/08/1899	British
Roland	Emmerich	10/11/1955	German

Avatar	SciFi	15/02/09	2782	J. Cameron
Titanic	Romance	23/07/97	2185	J. Cameron
2012	Disaster	13/11/09	770	R. Emmerich
Stargate	SciFi	01/02/94	197	R. Emmerich
Star Wars I	SciFi	21/05/99	924	G. Lucas
Star Wars IV	SciFi	17/09/77	775	G. Lucas
Star Wars III	SciFi	04/11/05	848	G. Lucas

3) Write a query to retrieve all movies released before January 1st 2000.
4) Write down a query which retrieves the realisator of the « 2012 » Movies. We remind you, that you are not supposed to know the idea number for this movie.
5) Display the titles (and only the title) for all movies by Georges Lucas. (Like in the previous question, you are not supposed to know the realisator ID for Georges Lucas and will need to use joins).

6) The movies income are in k$ in the database. Propose a query to display all the movies with their income in kilo Yuans (renminbi). We remind that 1 dollar is approximately 7 yuans.

7) Write a query which returns all realisators and the total income of their movies. Your query won't display realisators that have no movies in the database.

8) Write a query which return **ALL** realisators and sort them by ascending order of mean income for their movies.

9) Write a query that displays all realisators that don't have any registered movie in the database.