SQL Exercise

I have made a small "realistic" sample database for the SQL exercises. The database is a subset of "The Internet Movie Database" (IMDB – imdb.com). It have tree tables (the real one approx. 14):

movie(id, title, production_year, kind) [ca. 50000 rows]

casting(person_id, movie_id, nr_order, role) [ca. 750000 rows]

person(id, name) [ca. 300000 rows]

These tables are reduced with respect to both rows and fields and the sample is a random subset of movies from 2005-2011.

The SQLite database can be downloaded from Moodle.

Write SQL queries to answer the following:

1) Find the titles of all movies with a title starting with 007.

The answer should be:

	movie_id	title	production_year	kind
1	954	007 in Egypt	2006	video movie
2	960	007: Licence to Restore	2006	video movie

2) How many movies were produced in 2004?

The answer should be:

3) What is the average number of persons per movie?

	AVG_PERSONS
1	14.6784376152666

4) Find the title of all movies with Mads Mikkelsen.

The answer should be:



5) Find the different roles that Kevin Bacon has had.

The answer should be:



6) Find for each role the number of persons assigned to the roles.

The answer should be:

	role	count(*)
1	actor	339206
2	actress	227849
3	director	46601
4	producer	142445

7) Find, for the titles in question 1, all actors, and show the answer sorted by title.

	title	name	role
1	007 in Egypt	Broccoli, Albert R.	actor
2	007 in Egypt	Cooper, Jack	actor
3	007 in Egypt	Gilbert, Lewis	actor
4	007 in Egypt	Grace, Martin	actor
5	007 in Egypt	Kiel, Richard	actor
6	007 in Egypt	Moore, Roger	actor
7	007 in Egypt	Reid, Milton	actor
8	007 in Egypt	Renoir, Claude	actor
9	007 in Egypt	Simmons, Bob	actor
10	007: Licence to Restore	Cooper, Patrick	actor
11	007: Licence to Restore	Gomez, Ryan	actor
12	007: Licence to Restore	Grossman, Scott	actor
13	007: Licence to Restore	Inchalik, Michael	actor
14	007: Licence to Restore	Lowry, John	actor
15	007: Licence to Restore	Owsley, James	actor
16	007: Licence to Restore	Pethel, Price	actor

8) Show for each movie type (Hint: the attribute is named "kind") the number of titles.

	kind	count(*)
1		2
2	episode	3295
3	movie	21198
4	tv mini series	277
5	tv movie	4938
6	tv series	3352
7	video game	682
8	video movie	18323

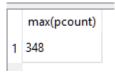
9) Find the tile of movies directed by Ridley Scott.

The answer should be:



10) What is the highest number of persons casted for one movie?

The answer should be:



11) How many actors has Kevin Bacon acted together with?

num_persons

1 777