## COMP2400/6240 - Relational Databases

## **SQL** Sample Questions

Due date: TBD

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Question 1
                                                                                                                                                                                   Unknown Marks
The relational database moviedb has the following database schema:
Movie(title, production_year, country, run_time, major_genre)
               primary key : {title, production_year}
Person(id, first_name, last_name, year_born)
               primary key : {id}
AWARD (award_name, institution, country)
               primary key : {award_name}
RESTRICTION_CATEGORY(description, country)
               primary key : {description, country}
DIRECTOR (id., tatle, production_year) entyear Project Exam Help
               foreign keys: [title, production_year] \subseteq MOVIE[title, production_year]
WRITER(id, title, producted that the producted that
               primary key :
                                                  [title,\,production\_year] \subseteq Movie[t
               foreign keys:
CREW(id, title, production_year, contribution) Chat edu_assist_pro
               primary key : {id, title, production_year}
               foreign keys:
                                                  [title, production_year] \subseteq Movie[title, production_year]
                                                   [id] \subseteq Person[id]
Scene(title, production_year, scene_no, description)
               primary key : {title, production_year, scene_no}
               foreign keys: [title, production_year] ⊆ MOVIE[title, production_year]
Role(id, title, production_year, description, credits)
               primary key : {title, production_year, description}
               foreign keys: [title, production_year] ⊆ MOVIE[title, production_year]
                                                   [id] \subseteq Person[id]
Restriction(title, production_year, description, country)
               primary key : {title, production_year, description, country}
               foreign keys: [title, production_year] ⊆ MOVIE[title, production_year]
                                                   [description, country] ⊂ RESTRICTION_CATEGORY[description, country]
Appearance(title, production_year, description, scene_no)
               primary key : {title, production_year, description, scene_no}
                                                   [title, production_year, scene_no]⊆SCENE[title, production_year, scene_no]
               foreign keys:
                                                   [title, production_year, description] \( \subseteq \text{Role}[title, production_year, description] \)
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MOVIE\_AWARD(title, production\_year, award\_name, year\_of\_award.category, result)

primary key : {title, production\_year, award\_name, year\_of\_award, category}

foreign keys: [title, production\_year]  $\subseteq$  MOVIE[title, production\_year]

 $[award\_name] \subseteq Award[award\_name]$ 

CREW\_AWARD(id, title, production\_year, award\_name, year\_of\_award, category, result)

primary key : {id, title, production\_year, award\_name, year\_of\_award, category} foreign keys: [id, title, production\_year]  $\subseteq$  CREW[id, title, production\_year]

 $[award\_name] \subseteq AWARD[award\_name]$ 

DIRECTOR\_AWARD(title, production\_year, award\_name, year\_of\_award, category, result)

primary key : {title, production\_year, award\_name, year\_of\_award, category} foreign keys: [title, production\_year]  $\subseteq$  DIRECTOR[title, production\_year]

 $[award\_name] \subseteq AWARD[award\_name]$ 

Writer\_Award (id, title, production\_year, award\_name, year\_of\_award, category, result)

primary key : {id, title, production\_year, award\_name, year\_of\_award, category} foreign keys:  $[id, title, production\_year] \subseteq Writer[id, title, production\_year]$ 

 $[award\_name] \subseteq AWARD[award\_name]$ 

ACTOR\_AWARD(title, production\_year, description, award\_name, year\_of\_award,category,result)

primary key : {title, production\_year, description, award\_name, year\_of\_award, category} evention of the production of

There are five different categori

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actor awards. A movie can only we solve the foll to single a single of the single actor awards. A movie can only we solve the foll to single a single of the SQL query that may contain subqueries, and you must write your answers into the template file myqueries.sql.

## Add WeChat edu\_assist\_pro 1.1 Find all the movies produced in Australia. List the titles and production

- 1.2 How many persons are there in this database? List that number.
- 1.3 Which writers have won a writer award in 1994? List the ids, the first and last names of the writers along with the award names.
- 1.4 Which directors have directed crime movies (i.e., the major genre of the movie is crime)? List the directors' ids and the titles and production years of these crime movies.
- 1.5 How many different crew members have worked on at least one movie produced in 1993? List that number.
- 1.6 List all titles of movies produced in 1995 along with the corresponding number of scenes in each movie. Order your result in the ascending order of the number of scenes in each movie.
- 1.7 Which year was the youngest director (i.e., the youngest person in the database who has ever directed a movie) born in? List that year.
- 1.8 How many directors are there in this database who have never written a movie? List that number.
- 1.9 What is the maximum number of scenes in any movie? List that number.
- 1.10 Who has/have won a most recent writer award? List their id(s).
- 1.11 Find all the movies which have won exactly two movie awards. List the titles and production years of these movies.
- 1.12 Who have won both writer and director awards for the same movie? Provide their ids, and the titles and production years of the corresponding movies.
- 1.13 Who have been nominated for an actor award at least twice but never won? List their ids, the first and last names, and order them in the ascending order of their last names.

- 1.14 Which crew members have worked on a movie that has won the greatest number of movie awards? Give the ids of the crew members.
- 1.15 Who is/are the most productive director(s) (i.e., who has/have directed the greatest number of movies)? List their id(s).

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