# TÖL303G Final Exam TÖL303G Lokapróf Book of Answers Svarabók

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Part I – SQL, etc. Hluti I – SQL o.fl.

Answer at least three questions in this part Remember to answer a total of at least 10 questions Svarið að minnsta kosti þremur spurningum í þessum hluta Munið að svara a.m.k. 10 spurningum í heild

1

a. select title, year from Movie order by year, title;

Select name from Movie Exec where notexists

(Select \* from Movie, starsIn where

Cert= producer ( and

title= movie Title and

year= movie Year and

Starname like / Harrison Ford!);

Select name from Studio left Join Hovie On name = studio Name left join Stars In on year = movie lear and title = movie Title where star Name = Jack Nicholson' group by name having count (title) >= 2;

a.

b.

C.

Select name is hull (count (distinct star Name), 0) from Movie Exec left join Movie on cert = Producer ( left join Stars In on title = Movie Title and year = Movie Hear group by cert;

Select name, address from Movie Exec, Movie where cert = producerc group by name order by sum (length) desc limit 1;

Select name, address from MovieStar, Starsln, Movie where gender = 'F' and name = StarName and title = movieTitle and year = movieYear order by sum (length) desc limit 1;

a.

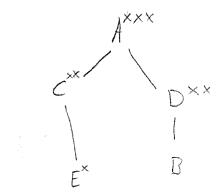
Select star Nane from Stars In where title like 1star Trek%'

group by Star Name
having Count (movie Title) >= 3;

b.

Select star Name from StarsIn, Movie where title = Movie Title and Year = Movie Year group by star Name Order by count Colistinct Studioname, desc limit 1;

6



Svőr: a,b,c,d,e

#### Part II - Relational Algebra, etc. Hluti II - Venslaalgebra o.fl.

Answer at least one question in this part Remember to answer a total of at least 10 questions Svarið að minnsta kosti einni spurningu í þessum hluta Munið að svara a.m.k. 10 spurningum í heild

7

A,B (
$$\sigma_{C=D}$$
 (RXS))

C.

8

A:

B:

C:

#### Part III – Relational Design, etc. Hluti III – Hönnun vensla o.fl.

Answer at least two questions in this part Remember to answer at least 10 questions in total Svarið að minnsta kosti tveimur spurningum í þessum hluta

Munið að svara a.m.k. 10 spurningum í heild

9

10

a.

b.

C.

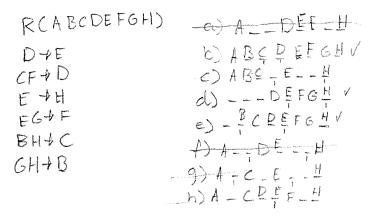


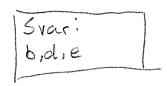
12

a.

b.

13





#### Part IV – Miscellaneous Hluti IV – Ýmislegt

Answer at least one question in this part Remember to answer at least 10 questions in total Svarið að minnsta kosti einni spurningu í þessum hluta Munið að svara a.m.k. 10 spurningum í heild

```
14
     Create table Stars (name varchar(32) Primary key,
                             add (Varchar (32));
    Create table Studios (name varchar (32) Primary key,
                            addr varchar(32));
   create table Maries ( title varchar(32),
                           year Int,
                          Length int,
                          genre Varcher (10)
                         Primary key (tifle, year));
Create table contracts (
              Salary Int,
              Star Name Varchar (32) References Stars Chame),
              StudioNane Varchar (32) References Studios (name),
              movieTitle varchar (32)
              movie Year Int,
              Primary lecy (Starname, movietitle, movietear),
             foreign lay (mountitle, movie Kear) References
                                          Movies (title, year));
```

15

```
public class Sq | Example &

Static final String Let = "Jolbo: Sqlik: movies.clb";

Public static void main (String E) args) throws Exception &

java.sql. Connection conn = java.sql. DriverMarager. getConnection (UTI);

java.sql. Stakement stmt = conn. create Statement();

java.sql. ResultSet rs = stmt. execute Query (

11 Select name, Ishall (Sum (length), 0) from Moviestar" +

11 year = movie fear group by name "/;

While (rs. next()) &

System.out. print In ("nath: "+re. getString(1) +

"Itengd: "+rs.getInt(2));

Ts. close();

Conn.close();

Conn.close();

3
```

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