



Andrew Ho <kironide@gmail.com>

SQL interview prep

2 messages

Jonah Sinick <jsinick@gmail.com>

Thu, Mar 10, 2016 at 7:14 PM

To: Ali Bagherpour <ali.bagherp@gmail.com>, Andrew Ho <Kironide@gmail.com>, Chad Groft <clgroft@gmail.com>, David Bolin <david@bolin.at>, Jacob Pekarek <jpekarek@trinity.edu>, Jaiwithani <jaiwithani@gmail.com>, James Cook <cookjw@gmail.com>, Linchuan Zhang <email.linch@gmail.com>, Matthew Gentzel <magw6270@terpmail.umd.edu>, Olivia Schaefer <taygetea@gmail.com>, Sam Eisenstat <sam.eisenst@gmail.com>, Tom Guo <tomguo4@gmail.com>, Trevor Murphy <trevor.m.murphy@gmail.com>

In rough order of difficulty. I suggest alternating.

Question #1

In a SQL db, you have two tables, an employees table and a departments table. Employees belong to only one department. Write a SQL query that, given a department name, finds all the employees in that department.

Question #2 Given a "users" table and a "visits" table (with times), count all users who visited the site within a certain time period.

Question #3

Given a COURSES table with columns course_id and course_name, a FACULTY table with columns faculty_id and faculty_name, and a COURSE_FACULTY table with columns faculty_id and course_id, how would you return a list of faculty who teach a course given the name of a course?

Question #4

Write a query that returns the name of each department and a count of the number of employees in each: EMPLOYEES containing: Emp_ID (Primary key) and Emp_Name EMPLOYEE_DEPT containing: Emp_ID (Foreign key) and Dept_ID (Foreign key) DEPTS containing: Dept_ID (Primary key) and Dept_Name

Jonah Sinick <jsinick@gmail.com>

Thu, Mar 10, 2016 at 7:31 PM

To: Ali Bagherpour <ali.bagherp@gmail.com>, Andrew Ho <Kironide@gmail.com>, Chad Groft <clgroft@gmail.com>, David Bolin <david@bolin.at>, Jacob Pekarek <jpekarek@trinity.edu>, Jaiwithani <jaiwithani@gmail.com>, James Cook <cookjw@gmail.com>, Linchuan Zhang <email.linch@gmail.com>, Matthew Gentzel <magw6270@terpmail.umd.edu>, Olivia Schaefer <taygetea@gmail.com>, Sam Eisenstat <sam.eisenst@gmail.com>, Tom Guo <tomguo4@gmail.com>, Trevor Murphy <trevor.m.murphy@gmail.com>

More questions

Given a database with

(a) A movie table with columns "id", "title" and "year"

(b) An actor table with columns "id", "actor".

(c) A casting table with columns "id", "actorid", "movieid", and "ord" (with "ord" indicating the place in the list of actors in decreasing importance), write queries that do the following

Question A: List the films in which 'Chuck Norris' has appeared; order by movie title.

Question B: Obtain the cast list for the movie "Zombies of the Stratosphere"; order by the actor's name.

Question C: Give the busiest years for Danny Devito (year and number of movies, for years with > 2 movies), order by year.

Question D: List the films in which "Nicolas Cage" has appeared, but not in a starring role. Order by movie title.

Question E: List the films together with lead actor for all 1908 films. Order by movie title.

Question F: Find the number of actors who don't appear in any movies in the database.

Question G: Give an alphabetical list of actors who have had exactly 20 starring roles

Question H: List film title and leading actor for all of the films that "Chris Farley" played in.

[Quoted text hidden]