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Homework 1 Relational Algebra And
1 Virginia Tech. CS 4604 – Introduction
to DBMS Computer Science Spring 2016,
Prakash Homework 1: Relational Algebra
and SQL (due February 10 th, 2016,
4:00pm, in class—hard-copy please)

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Reminders: a. Out of 100 points.
Contains 6 pages. b. Rough time-
estimates: 3~6 hours. c.

Homework 1: Relational Algebra and SQL

CSE 444 Homework 1 (b) (5 points)

Write a Relational Algebra expression in
the form of a logical query plan that is

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equivalent to the SQL query below.

```
SELECT R.a, S.f, sum(S.e) as sum FROM  
R, S WHERE R.c = S.d AND R.b > 10  
GROUP BY R.a, S.f HAVING count(*) > 10
```

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CSE 444 { Homework 1 Relational Algebra, Heap Files, and ...

! 1! Virginia Tech. CS 4604 - Introduction

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to DBMS Computer Science Spring 2013,
Prakash Homework 1: Relational Algebra
and SQL (due February 8th, 2013,
9:05am, in class—hard-copy please)
Reminders: a. Out of 100 points. b.
Rough time-estimates: 2~4 hours. c.
Please type your answers.

Homework 1: Relational Algebra

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and SQL

Introduction This homework will require you to solve a few problems using relational algebra. Be sure to have understood the material in chapters 2,6-6.1, Dataset This dataset is roughly based on a subse

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Solution - Coding Lab

Homework 1 Part 1. Relational Algebra and Relational Calculus (25 points)

Consider the relational schema for a library database as shown in Figure 1. 1.

Provide a relational algebra expression for each of the following queries: A.

Retrieve the names of borrowers who do not have any books checked out. B.

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Homework 1 Relational Algebra and Relational Calculus ...

Figure 1: An instance of the IT-Employees and Admin-Employees relations

1 Relational Algebra and SQL Queries For each of the following Relational Algebra Expressions show an equivalent SQL query.

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1 Relational Algebra and SQL Queries

Complete the Gradiance homework titled "Homework 1.1 (Relational Algebra Basics)." Note that some of the online exercises use English names of relational algebra operators instead of symbols. Problem 2 (32 points) Consider

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a database containing information about bars, beers, and bar-goers.

CompSci 316 Fall 2018: Homework #1

What is Relational Algebra? An algebra whose operands are relations or variables that represent relations. Operators are designed to do the most

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common things that we need to do with relations in a database. The result is an algebra that can be used as a query language for relations.

Relational Algebra - Stanford University

Relational algebra is procedural query language used to query the database in

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various ways. In other words, Relational Algebra is a formal language for the relational mode. A data model must also include a set of operations to manipulate, retrieve the data in the database, in addition to defining the database structure and constructs.

DBMS Relational Algebra Examples

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With Solutions - Tutorialwing

Hint: follow the slide 6.38 in ch6.pptx.

(2) Given the relational algebra expression you have in (1), show how to get the relational algebra expression as shown in Figure (a) on the slide 1.14 in ch13.pptx, without the projection of `llcourse_id,title`: (3) Consider the relational algebra expression you get in

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(2).

I Question 1: Two Relational Algebra Expressions A ...

Database Systems: Homework 1 Key
Due 18 September, 2013 Team: 1. (2 pts each) Consider the two tables T1 and T2. Show the results of the following relational algebra operations: Table T1

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Table T2 P Q R A B C 10 a 5 10 b 6 15 b
8 25 c 3 25 a 6 10 b 5 (a) T1 1
T1:P=T2:A T2 P Q R A B C 10 a 5 10 b 6
10 a 5 10 b 5 25 a 6 25 c 3 (b) T1 1
T1:Q=T2:B ...

Database Systems: Homework 1 Key

- Aggregate operation in relational algebra E is any relational-algebra

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expression - $G_1, G_2 \dots, G_n$ is a list of attributes on which to group (can be empty) - Each F_i is an aggregate function - Each A_i is an attribute name •
Note: Some books/articles use γ instead of σ (Calligraphic σ), ρ , π , \bowtie , \Join , \bowtie () 1 2 1 1
2 2 E G G G_n F A F A ...

Relational algebra - CBCB

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Relational algebra is a procedural query language, which takes instances of relations as input and yields instances of relations as output. It uses operators to perform queries. An operator can be either unary or binary. They accept relations as their input and yield relations as their output.

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Relational Algebra - Tutorialspoint

Homework 1: Relational Algebra, SQL
100 pts Due Date: Oct 4, at the beginning of the class. Hard copy, please type your answers (Please don't write by hand). If we cannot read what you write, we cannot give you points. Consider the following schema: author (ID, FirstName, LastName, YearOfBirth, Gender,

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LivingCityID)

INFSCI 2710 Database Management, fall 2016 Tuesday ...

Each beach has a number (B#) a name (BNAME) and a pollution rate of 0 (low pollution), 1 (moderate pollution) or 2 (high pollution). The third records the members swimming. Express the

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following queries in relational algebra (1 to 4), Calculus (1 to 4) SQL 1 to 6). 1. List the names of beaches that John Smith has visited? 2.

Answer: Relational Algebra Questions

Question 1.1.7 (10 Points) Write a relational algebra expression that

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returns the food items that are ingredients for "Cheese Soup" but not for "Burgers". Solution $\pi_{\text{foodItem}}(\sigma_{\text{recipe}=\text{Cheese Soup}}(\text{ingredient})) - \pi_{\text{foodItem}}(\sigma_{\text{recipe}=\text{Burger}}(\text{ingredient}))$ Question 1.1.8 (7 Points)

Homework Assignment 1 September

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16th, 2014 CS425 ...

List all the equivalent relational algebra expressions of WWINY, 2. Assume that each block contains up to 20 tuples of any relation including intermediate results. Assume that one is only allowed to use nested loop join with a memory of $m = 10$ blocks and no pipeline is allowed. Find the relational algebra

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expression with the minimum estimated cost.

Q.5) Consider Three Relations, W, X And Y Where W De ...

RELATIONAL ALGEBRA is a widely used procedural query language. It collects instances of relations as input and gives occurrences of relations as output. It

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uses various operations to perform this action. SQL Relational algebra query operations are performed recursively on a relation.

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