DAS 301P Database Systems Lab

Database Programming

The objective of this lab is to learn how do database programming using database libraries.

Insert new Employee and assign project

1. Insert a new employee into the EMPLOYEE table of companydb (by reading inputs from terminal)
2. insert a row into WORKS_ON table to assign the newly added employee to a project (pid terminal input) for a specific number of hours (hours terminal input).
3. COMMIT the transaction only if hours > 0. ROLLBACK if hours is <= 0.

Dependents Report

Prepare a report in the following format for employee who has at least one dependent:

* * * *

Employee#1 full name: fname lname
Dependent #1 : dependent_name (relationship)
Dependent #2 : dependent_name (relationship)

* * * *

Employee#2 full name: fname lname
Dependent #1 : dependent_name (relationship)
Dependent #2 : dependent_name (relationship)

* * * *

What to upload

Put the following screenshots in one PDF document and upload the same. Name the file as rollno_transactions.pdf

1) Successful operation:

a) Screenshot showing that COMMIT statement was executed
b) Screenshot showing fname and lname of all rows in employee table (It should contain the new employee record)

2) Unsuccessful option

a) Screenshot showing that ROLLBACK statement was executed because of invalid hours value
b) Screenshot showing fname and lname of all rows in employee table (It should NOT contain the new employee record)

3) Dependent Report

a) Screenshot showing SEVEN dependents of the THREE employees in the required format