ITC3160 – Fundamentals of RDBMS, I.Christou

Danai-Georgia Sakelliadou, ID:243439

Andreas Natsis Varvitsiotis, ID: 253537

Github repo: <https://github.com/dgsakelliadou/ITC3160>

1. Display the names of all workers in the accounting department. Use the ‘Accounting’ as a condition and not the department id. (4points)

Select firstName, lastName

from worker

where departmentID = (select departmentID from dept where departmentName = 'Accounting')

Graphical user interface, text

Description automatically generated

1. Find the details of any project with the word “urn” anywhere in its name. (4points)

SELECT \* FROM project

WHERE projname LIKE '%urn%'

Graphical user interface, text, application

Description automatically generated

1. Assuming that salary contains annual salary, find each worker’s ID, name, and monthly salary. (4points)

select empId, firstName, lastName, round(salary/12,2) as monthly\_salary

from worker

Table

Description automatically generated with medium confidence

1. Display an alphabetical list of names of all workers assigned to project 1001, sorted by last name. (4points)

select lastname, firstname

from worker w, assign a

where w.empid = a.empid

and a.projno = '1001'

order by lastname

Graphical user interface, text, application

Description automatically generated

1. Display the name of the employee in the research department who has the lowest salary. (6points)

select firstname, lastname

from worker w

where w.salary = (select min(salary) from worker where departmentid = (select departmentid from dept where departmentname = 'Research'))

group by firstname, lastname, salary

Table

Description automatically generated

1. Display details of the project with the highest budget. (4points)

SELECT PROJNO ,

PROJNAME ,

PROJMGRID ,

BUDGET ,

STARTDATE ,

EXPECTEDDURATIONWEEKS

from project p

where p.budget = (select max(budget)from project)

Graphical user interface, text, application, email

Description automatically generated

1. Display the names and departments of all workers on project 1019. (4points)

SELECT firstname, lastname, departmentID

FROM worker w, assign a

WHERE w.empid = a.empid

AND a.projno = '1019'

Graphical user interface, text, application

Description automatically generated

1. Display an alphabetical list of names and corresponding ratings of all workers on any project that is managed by Michael Burns. Use ‘Michael and ‘Burns’ as conditions. (4points)

SELECT firstname, lastname, rating

FROM assign a, worker w

WHERE a.projno IN (select projno from project p where p.projmgrid=(select empid from worker where firstname = 'Michael' and lastname = 'Burns'))

and w.empid = a.empid

order by lastname, firstname

Graphical user interface, text, application, email

Description automatically generated