Grigoris Lagos 310600, Konstantinos Loulakakis 266944

ITC 3160 - Fundamentals of RDBMS Coursework, Prof Arnaoutaki

# GIT HUB REPOSITORY LINK

<https://github.com/grigorislagos/lagosloulakakis_coursework>

# SQL QUERIES

1. Display the full names of all workers in the Development department whose salaries are above 30.000. Use the ‘Development’ as a condition and not the department id. (10points)

select firstName, lastName from WORKER e

inner join dept s

on e.departmentID = s.departmentID

where departmentname = 'Development'

and salary > 30000;

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2. Retrieve the details of any project with a budget above 350.000. (10points)

select \* from project

where budget > 350000;

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3. Assuming that the budget addresses the 3-year spending plan, find each project’s ID, name, and annual budget. (10points)

select projno, projname, budget from project

where (date - startDate >= 3);

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4. Display an alphabetical list of names of all workers assigned to project 1040 (‘Bruno’), sorted by last name. (10points)

select firstName, lastName from worker e

inner join assign s

on e.empid = s.empid

where projno = 1040

order by e.lastname;

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5. Display the full name of all employees in the Development department with an above average salary. (10points)

select firstname, lastname from worker e

inner join dept s

on e.departmentid = s.departmentid

where salary > (select avg(salary) from worker)

and departmentname = 'Development';

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6. Display details of the project with the minimum expected duration. (8points)

select \* from project

where expectedDurationWeeks= (select min(expectedDurationWeeks) from project);



7. Display the full names and departments of all workers on project 1019. (8points)

select firstname, lastname from worker e

inner join assign s

on e.empid = s.empid

inner join dept d on e.projno = s.projno

where projno=1019;

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8. Display an alphabetical list of names and corresponding ratings of all workers on any project that is managed by Liu Jun-Min. Use ‘Liu’ and ‘Jun-Min’ as conditions. (10points)

select firstname |

| ' ' |

| lastname as "Full Name" from Worker e

inner join assign s

on e.empid=s.empid

where firstname = 'Liu' and lastname = 'Jun-Min'

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9. Create a view that has the project number and name of each project, along with the IDs and names of all workers assigned to it. (12points)

create view ProjectDetails as select projno, projname from project;

alter table ProjectDetails add firstname, lastname from worker char;

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10. Using the view created in Exercise 9, find the number of projects employee 103 is assigned to. (12points)

select count(projname) from ProjectDetails

where empid = 103

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