CO527 : Advance Database Systems

Weeraratne I.L (E/11/431)

2. select last_name, count(last_name) as no_of_times from employees group by last_name order by no_of_times desc limit 10;

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4)
select first_name, titles.emp_no
from
(
employees join dept_manager on employees.emp_no = dept_manager.emp_no
)

join titles on employees.emp_no = titles.emp_no where employees.sex = 'F'
and titles.title = 'senior engineer'
:
```

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5)
select dept name, title from employees
join titles on employees.emp_no = titles.emp_no
join salaries on employees.emp_no = salaries.emp_no
join dept_emp on employees.emp_no = dept_emp.emp_no
join departments on departments.dept_no = dept_emp.dept_no
where salaries.salary > 115000
6)
select distinct first_name, last_name,dept_name from employees
join dept_emp on employees.emp_no = dept_emp.emp_no
join departments on dept_emp.dept_no != (
       select dept_no from departments where dept_name = 'human resources'
)
7)
select distinct first_name, last_name from employees
join dept_emp on employees.emp_no = dept_emp.emp_no
join departments on dept_emp.dept_no != (
       select dept no from departments where dept name = 'Human Resources'
)
8)
select distinct first_name, last_name from employees
join salaries on employees.emp_no = salaries.emp_no
where salaries.salary > (
       select salary from salaries
      join dept_emp on salaries.salary = dept_emp.emp_no
      join departments on dept_emp.dept_no = (
              select dept_no from departments where dept_name = 'finance'
       )
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9)
from distinct first_name, last_name from employees
join salaries on employees.emp_no = salaries.emp_no
where salaries.salary > (
       select avg(salary) from salaries
)
10)
select
select avg(salary) from salaries
join titles on salaries.emp_no = titles.emp_no where titles.title = 'Senior Engineer'
) - (select avg(salary) from salaries)
11)
12)
13)
create table printSalary(
emp_no int not null,
old_salary int,
new_salary int,
salary_difference int,
foreign key (emp_no) references employees(emp_no)
);
delimiter |
create trigger check_update
before update on salaries
for each row
begin
       insert into print_salary values (old.emp_no, old.salary,
                                     new.salary, new.salary-old.salary)
end
| delimiter
```