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/* lab 8D */

/* 1.Show JOB_ID and a column called Employees which shows how many employees have
each Job_ID. */
select job_id, count(*)
 from employees
 group by job_id;

/*  2. Show JOB_ID and a column called Employees which shows how many employees have
each JOB_ID where the JOB_ID ends in MGR. */

select job_id, count(*) as "Employees"
 from employees
 group by job_id
 having job_id like '%MGR';

/* 3. Show JOB_ID, a column called Employees and a SALARY column which shows how
many employees in each JOB_ID have a salary greater than 9000 */

select * from employees;

select job_id, count(*) as "Employees"
 from employees
 where salary > 9000
 group by job_id;

select job_id, count(*) as "Employees"
 from employees
 group by job_id;

/* 4. Show DEPARTMENT_NAME and a column called OLDEST_HIRES which shows the date of
hire of the longest serving employee in each department, in order of date with the
oldest dates first */

select * from departments;
select * from job_history;
select * from employees;

select min(e.hire_date), d.department_name
 from employees e, departments d
 where e.department_id = d.department_id
 group by d.department_name
 order by 1 desc;

/*  5. Show DEPARTMENT_ID and a column called TOTAL_SALARY which shows the Total
Salary paid to each Department */

select * from employees;

select department_id, sum(salary)
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 from employees
 group by department_id;

select * from employees where department_id is null;
select * from employees where department_id=10;

/* 6. Show DEPARTMENT_NAME and a column called TOTAL_SALARY which shows the Total
Salary paid to each Department */

select * from employees;
select * from departments;

select d.department_id, sum(e.salary)
 from employees e, departments d
 where e.department_id = d.department_id
 group by e.department_id;

select d.department_name, sum(e.salary)
 from employees e, departments d
 where e.department_id = d.department_id
 group by d.department_name;

/* 7. Show CITY and a a column called TOTAL_SALARY which shows the Total Salary paid
in each City */

select * from locations;
select * from departments;
select * from employees;

select l.city, sum(e.salary) as "Total Salary"
 from employees e, locations l, departments d
 where e.department_id = d.department_id
 and d.location_id = l.location_id
 group by city;

/*  8. Show CITY and a a column called TOTAL_SALARY which shows the Total Salary
paid in each City in the United States */

select * from regions;
select * from locations;
select * from departments;

select l.city, sum(e.salary)
 from employees e, locations l, departments d
 where e.department_id = d.department_id
 and l.location_id = d.location_id
 group by city;

select l.city, sum(e.salary)
 from employees e, locations l, departments d
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 where e.department_id = d.department_id
 and l.location_id = d.location_id
 group by city, country_id
 having country_id='US';

/* 9. Show JOB_TITLE and a column called AVERAGE_COMMISSION which shows the average
commission earned in each job. Do not show jiobs which do not earn commission. Show
the average commission rounded to 2 decimal places */

select * from employees;
select * from jobs;

select job_title, avg(commission_pct)
 from employees e, jobs j
 where e.job_id = j.job_id
 group by job_title;

select job_title, avg(commission_pct)
 from employees e, jobs j
 where e.job_id = j.job_id
 and commission_pct is not null
 group by job_title;

/* 10 10. Show REGION_NAME and a column called AVERAGE_SALARY which shows the averge
salary in each region */

select * from regions;
select * from employees;
select * from departments;
select * from locations;
select * from countries;

select region_name, avg(e.salary)
 from employees e, departments d, locations l, countries c, regions r
 where e.department_id = d. department_id
 and d. location_id = l.location_id
 and l.country_id = c.country_id
  and c.region_id = r.region_id
  group by region_name;

 select region_name, round(avg(e.salary),2)
 from employees e, departments d, locations l, countries c, regions r
 where e.department_id = d. department_id
 and d. location_id = l.location_id
 and l.country_id = c.country_id
  and c.region_id = r.region_id
  group by region_name;
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