

Práctica 2 Base de Datos



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Trabajo realizado por:

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- a) SELECT first_name AS Nombre, last_name AS Apellidos, phone_number AS telefono
FROM HR_employees
WHERE job_id = 'IT_PROG'; //5 consultas
- b) SELECT first_name AS Nombre, last_name AS Apellido
FROM HR_employees
WHERE commission_pct IS NULL; //72 consultas
- c) SELECT Count(*) AS No_Comision, (SELECT Count(*)
FROM HR_EMPLOYEES
WHERE commission_pct IS NOT NULL) AS
Comision
FROM HR_EMPLOYEES
WHERE commission_pct IS NULL; //1 registro
- d) SELECT first_name AS Nombre, last_name AS Apellido, email, salary AS Paga
FROM HR_employees
ORDER BY salary; //107 registros
- e) SELECT E.first_name AS Nombre, E.last_name AS Apellido, E.email, E.salary AS Paga, D.department_id AS Departamento
FROM HR_employees AS E, HR_departments AS D
WHERE E.department_id = D.department_id
ORDER BY salary; //106 registros = Hay un departamento que no tiene trabajadores
- f) SELECT last_name AS Apellido
FROM HR_employees
WHERE last_name NOT LIKE 'e*' AND last_name LIKE '*t*' AND last_name NOT LIKE '*n'
ORDER BY last_name //24 registros
- g) SELECT last_name AS Apellidos, COUNT(*) AS Cuantos
FROM HR_employees
WHERE last_name NOT LIKE '*h' AND last_name NOT LIKE '*r'
GROUP BY last_name
HAVING COUNT (*) > 1; // 3 registros

- h) SELECT e.last_name AS Apellido, e.email, d.department_name AS [Nombre de departamento]
FROM HR_employees AS e, HR_departments AS d
WHERE e.department_id = d.department_id AND e.employee_id = d.manager_id
ORDER BY department_name //11 registros
- i) SELECT first_name AS Nombre, last_name AS Apellido, region_name AS Region
FROM HR_employees AS e, HR_departments AS d, HR_locations AS l,
HR_countries AS c, HR_regions AS r
WHERE e.department_id = d.department_id AND e.employee_id = d.manager_id AND d.location_id = l.location_id AND l.country_id = c.country_id
AND c.region_id = r.region_id AND e.salary > (SELECT AVG(e.salary) FROM HR_employees AS e2, HR_employees AS d2 WHERE e2.department_id = d2.department_id AND e2.employee_id = d2.manager_id)
GROUP BY first_name, last_name, region_name, salary
- j) SELECT department_name AS [Nombre de departamento], city AS Ciudad,
country_name AS Pais, region_name AS Region
FROM HR_departments AS d, HR_locations AS l, HR_countries AS c, HR_regions AS r
WHERE d.location_id = l.location_id AND l.country_id = c.country_id AND c.region_id = r.region_id
ORDER BY country_name DESC //27 registros
- k) SELECT first_name & ', ' & last_name AS [Nombre y apellidos], job_title AS [Categoria laboral], min_salary AS [Sueldo minimo]
FROM HR_employees AS e, HR_jobs AS j
WHERE e.job_id = j.job_id
ORDER BY min_salary; //107 registros
- l) SELECT JOB_TITLE, count(*) AS n_empleados, MAX(salary) AS [Mayor salario],
MIN (salary) AS [Menos salario], AVG(salary) AS [Salario Medio]
FROM HR_JOBS AS J, HR_EMPLOYEES AS E
WHERE J.job_id = E.job_id
GROUP BY J.JOB_TITLE; //19 registros

- m) SELECT e.first_name AS Nombre, e.last_name AS Apellido, e1.first_name AS [Nombre Manager], e1.last_name AS [Apellido Manager]
FROM HR_employees AS e, HR_jobs AS j, HR_employees AS e1
WHERE e1.employee_id = e.manager_id AND e1.job_id = j.job_id
ORDER BY j.job_id; //106 registros
- n) SELECT d.department_name, l.city, (SELECT SUM(salary)
FROM HR_employees AS E2
WHERE E2.department_id = d.department_id)
AS SALARY_TOTAL
FROM HR_locations AS l, HR_departments AS d
WHERE l.location_id = d.location_id; //27 registros
- o) SELECT first_name & ', ' & last_name AS [Nombre, Apellido], job_title AS [Categoria Laboral]
FROM HR_employees AS e, HR_jobs AS j
WHERE e.job_id = j.job_id AND manager_id IS NULL //1 registro
- p) SELECT department_name AS Departamento, Format(AVG([salary]), '0.0000') AS Salario, count(*) AS Empleados, MAX(salary) AS Salario_Maximo, MIN(salary) AS Salario_Minimo
FROM HR_jobs AS J, HR_departments AS D, HR_employees AS E
WHERE D.department_id = E.department_id AND E.job_id = J.job_id
GROUP BY department_name
ORDER BY AVG(salary) DESC; //11 registros
- q) SELECT Count (*) AS Numero_empleados
FROM HR_employees
WHERE YEAR(hire_date)
BETWEEN '1995' AND '1999' //83 trabajadores
- r) SELECT country_name AS [Nombre Pais], count(*) AS Cantidad
FROM HR_countries AS C, HR_locations AS L
WHERE C.country_id = L.country_id
GROUP BY country_name; //14 registros
- s) SELECT city AS Ciudad, region_name AS Region, country_name AS Pais, COUNT(d.department_id) AS Cuantos
FROM HR_regions AS r, HR_countries AS c, HR_locations AS l, HR_departments AS d
WHERE r.region_id=c.region_id AND c.country_id=l.country_id AND l.location_id=d.location_id

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GROUP BY city, country_name, region_name
ORDER BY COUNT (d.department_id);           //7 registros
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t) SELECT city AS Ciudad, country_name AS [Nombre Pais], region_name AS [Nombre Region]
FROM HR_locations AS l, HR_countries AS c, HR_regions AS r
WHERE l.country_id = c.country_id AND c.region_id = r.region_id AND
location_id NOT IN (SELECT location_id FROM HR_departments AS d WHERE
d.location_id IS NOT NULL)
GROUP BY city, country_name, region_name //16 registros

u) SELECT e.last_name & ', ' & e.first_name AS [Nombre Completo]
FROM HR_EMPLOYEES AS e, HR_DEPARTMENTS AS d
WHERE e.employee_id = d.manager_id
ORDER BY e.last_name DESC //11 registros

v) SELECT e.last_name AS APELLIDO, e.salary AS SALARIO, d.department_name AS
DEPARTAMENTO
FROM HR_EMPLOYEES e, HR_DEPARTMENTS d
WHERE e.department_id = d.department_id AND e.employee_id NOT IN (
SELECT E1.EMPLOYEE_ID
FROM HR_EMPLOYEES E1, HR_DEPARTMENTS D1
WHERE D1.MANAGER_ID = E1.EMPLOYEE_ID)
AND e.salary < (
SELECT AVG(E.SALARY)
FROM HR_EMPLOYEES E, HR_DEPARTMENTS D
WHERE E.DEPARTMENT_ID = D.DEPARTMENT_ID) //55 registros

w) SELECT 'CON' AS SI_NO, D.DEPARTMENT_NAME & ', ' & L.CITY AS
DEPARTAMENTO_CIUADAD
FROM HR_DEPARTMENTS D, HR_LOCATIONS L
WHERE D.LOCATION_ID = L.LOCATION_ID AND D.DEPARTMENT_ID NOT IN (
SELECT D2.DEPARTMENT_ID
FROM HR_DEPARTMENTS D2, HR_LOCATIONS L2, HR_EMPLOYEES E2
WHERE D2.LOCATION_ID = L2.LOCATION_ID AND E2.DEPARTMENT_ID =
D2.DEPARTMENT_ID
GROUP BY D2.DEPARTMENT_ID, L2.CITY
HAVING COUNT(E2.EMPLOYEE_ID) > 1
)
UNION
SELECT 'SIN' AS SI_NO, D1.DEPARTMENT_NAME & ', ' & L1.CITY

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FROM HR_DEPARTMENTS D1, HR_LOCATIONS L1, HR_EMPLOYEES E1
WHERE D1.LOCATION_ID = L1.LOCATION_ID AND E1.DEPARTMENT_ID =
D1.DEPARTMENT_ID GROUP BY D1.DEPARTMENT_NAME, L1.CITY
HAVING COUNT(E1.EMPLOYEE_ID) > 1           //27 registros

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x) SELECT J.job_id, J.job_title AS NOMBRE_JOB, MIN(E.salary) AS
SALARIO_MINIMO
FROM HR_JOBS AS J, HR_EMPLOYEES AS E
WHERE E.job_id = J.job_id
GROUP BY J.job_id, J.job_title           //19 registros

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y) SELECT E.FIRST_NAME AS NOMBRE, E.LAST_NAME AS APELLIDO, E.SALARY AS
SALARIO, D.DEPARTMENT_NAME AS DEPARTAMENTO
FROM HR_EMPLOYEES E, HR_DEPARTMENTS D
WHERE D.DEPARTMENT_ID = E.DEPARTMENT_ID AND E.SALARY > (
    SELECT 0.75 * E1.SALARY
    FROM HR_EMPLOYEES E1
    WHERE E1.EMPLOYEE_ID = D.MANAGER_ID
)           //19 registros

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z) SELECT E.LAST_NAME AS APELLIDO, E.SALARY AS SALARIO,
D.DEPARTMENT_NAME AS DEPARTAMENTO
FROM HR_EMPLOYEES E, HR_DEPARTMENTS D, HR_LOCATIONS L
WHERE E.DEPARTMENT_ID = D.DEPARTMENT_ID AND D.LOCATION_ID =
L.LOCATION_ID AND L.CITY IN (
    SELECT L1.CITY
    FROM HR_DEPARTMENTS D1, HR_LOCATIONS L1
    WHERE D1.LOCATION_ID = L1.LOCATION_ID
    GROUP BY L1.CITY
    HAVING COUNT(D1.DEPARTMENT_ID) > 1
)
AND E.SALARY < (
    SELECT AVG(E3.SALARY)
    FROM HR_EMPLOYEES E3
    WHERE E3.DEPARTMENT_ID = D.DEPARTMENT_ID
)           //12 registros

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aa) -----

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bb) SELECT E.FIRST_NAME, S.LAST_NAME
FROM HR_EMPLOYEES E, HR_EMPLOYEES S, HR_JOBS J

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WHERE S.EMPLOYEE_ID = E.MANAGER_ID AND J.JOB_ID = E.JOB_ID AND
J.MAX_SALARY < 12000
AND E.SALARY < ( SELECT AVG(E1.SALARY) FROM HR_EMPLOYEES E1
WHERE E.DEPARTMENT_ID = E1.DEPARTMENT_ID AND E.EMPLOYEE_ID <>
E1.EMPLOYEE_ID AND
E.JOB_ID = E1.JOB_ID)
//34 registros

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cc) SELECT S.FIRST_NAME, (SELECT COUNT(*)
FROM HR_EMPLOYEES E1
WHERE E1.MANAGER_ID = S.EMPLOYEE_ID AND
E1.EMPLOYEE_ID NOT IN (SELECT MANAGER_ID
FROM HR_DEPARTMENTS D
WHERE D.MANAGER_ID IS NOT NULL))
FROM HR_EMPLOYEES S
WHERE S.EMPLOYEE_ID IN (SELECT DISTINCT E.MANAGER_ID
FROM HR_EMPLOYEES E
WHERE E.MANAGER_ID IS NOT NULL)
//18 registros

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