Practice SQL assignment

- Gogulamudi Dhanalakshmi

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create database rev_ass

use rev_ass

Q1

Create table table1 (DEPARTMENT_ID int
,DEPARTMENT_NAME varchar(20)
,MANAGER_ID int
,LOCATION_ID int)

insert into table1(DEPARTMENT_ID, DEPARTMENT_NAME, MANAGER_ID, LOCATION_ID)
values
(10, 'Administration', 200, 1700),
(20, 'Marketing', 201, 1800),
(30, 'Purchasing', 114, 1700),
(40, 'Human_Resources', 203, 2400),
(50, 'Shipping', 121, 1500),
(60, 'IT', 103, 1400)

create table table2(EMPLOYEE_ID int,
FIRST_NAME varchar(20),
LAST_NAME varchar(20),EMAIL varchar(50), SALARY int ,
MANAGER_ID int , DEPARTMENT_ID int
)

insert into table2(EMPLOYEE_ID, FIRST_NAME, LAST_NAME, EMAIL,
SALARY, MANAGER_ID,      DEPARTMENT_ID)
values (100, 'Steven', 'King', 'SKING', 24000, 0, 90),
(101, 'Neena', 'Kochhar', 'NKOCHHAR', 17000,       100,    90),
(102,   'Lex',   'De Haan',      'LDEHAAN',    17000, 100,    90),
(103,   'Alexander',    'Hunold',        'AHUNOLD',   9000,  102,    60),
(104,   'Bruce','Ernst', 'BERNST',      6000,  103,    60),
(105,   'David','Austin',          'DAUSTIN',    4800,  103,    60
)

create table table3(GRADE_LEVEL varchar(20),
LOWEST_SAL int,     HIGHEST_SAL int
)

insert into table3(GRADE_LEVEL,    LOWEST_SAL,         HIGHEST_SAL
)
values
('A',     1000,  2999),('B',       3000,  5999),('C',       6000,  9999),
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('D',      10000, 14999),('E',      15000, 24999),('F',      25000, 40000)

select * from table1
select * from table2
select * from table3

a)select a.first_name, a.last_name, a.department_ID, b.department_name
from table2 as a join table1 as b
on a.DEPARTMENT_ID=b.DEPARTMENT_ID

b)select c.first_name, c.last_name, c.salary, d.grade_level
from table2 as c join table3 as d
on c.salary BETWEEN d.lowest_sal AND d.highest_sal

c)select e.department_name, f.salary
from table1 as e inner join table2 as f
on e.DEPARTMENT_ID=f.DEPARTMENT_ID
where (select count(distinct salary) from table2
where DEPARTMENT_ID= f.DEPARTMENT_ID and salary>f.SALARY) <2
order by e.DEPARTMENT_NAME desc

d)select a.EMPLOYEE_ID, a.FIRST_NAME, a.LAST_NAME,
a.EMAIL ,a.SALARY,a.MANAGER_ID, a.DEPARTMENT_ID,
b.department_name from table2
as a left join table1 as b
on a.manager_id= b.manager_id

2Q)create table table4(
salesman_id int,
name1 varchar(20),
city varchar(20),
commission float
)

insert into table4(salesman_id,          name1,          city,      commission
)
values
(5001,  'James Hoog', 'New York',      0.15), (5002,   'Nail Knite',      'Knite', 0.13),
(5005,  'Pit Alex',          'Alex',   0.14), (5006,   'Mc Lyon',        'Lyon',  0.11),
(5003,  'Lauson Hen', ' ',          0.12), (5007,   'Paul Adam',    'Rome',           0.15)

select * from table4

select name1, avg(commission) as total_com
from table4
where name1 not between 'A' and 'L'
group by name1

3Q)create table table5(
customer_id    int,
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cust_name varchar(20),        city varchar(20),        grade int,        salesman_id int)

insert into table5(customer_id,        cust_name,    city,    grade,  salesman_id)
values
(3002,  'Nick Rimando',        'New York',    100,    5001), (3005,  'Graham Zusi', 'California',
200,    5002),
(3001,  'Brad Guzan',  'London', ' ',5005), (3004,      'Fabian Johns',        'Paris', 300,    5006),
(3007,  'Brad Davis',    'New York',    200,    5001), (3009,  'Geoff Camero',        'Berlin', 100,
5003)

select grade, count(*) as cust
from table5
group by grade
having grade>(select avg(grade) from table5 where city= 'New York');
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