SQL ASSIGNMENT- 2

SUBMITTED BY

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HR DATABASE EXCERCISE

1. SELECT first_name "First Name", last_name "Last Name" FROM employees;

2.SELECT DISTINCT department_id FROM employees;

3. SELECT * FROM employees ORDER BY first_name DESC;

4. SELECT first_name, last_name, salary, salary*.15 PF FROM employees;

5. SELECT employee_id, first_name, last_name, salary FROM employees ORDER BY salary;

6. SELECT SUM(salary) FROM employees;

7. SELECT MAX(salary), MIN(salary) FROM employees;

8. SELECT AVG(salary), COUNT(*) FROM employees;

9. SELECT COUNT(*) FROM employees;

10. SELECT COUNT(DISTINCT job_id) FROM employees;

11. SELECT UPPER(first_name) FROM employees;

12. SELECT SUBSTRING(first_name,1,3) FROM employees;

13. SELECT TRIM(first_name) FROM employees;

14. SELECT LENGTH(first_name)+LENGTH(last_name) 'Length of Names' FROM employees;

15. SELECT * FROM employees WHERE first_name REGEXP '[0-9]';

16. SELECT first_name, last_name, salary FROM employees WHERE salary NOT BETWEEN 10000 AND 15000;

17. SELECT first_name, last_name, department_id FROM employees WHERE department_id IN (30, 100) ORDER BY department_id ASC;

18. SELECT first_name, last_name, salary, department_id FROM employees WHERE salary NOT BETWEEN 10000 AND 15000 AND department_id IN (30, 100);

19. SELECT first_name, last_name, hire_date FROM employees WHERE YEAR(hire_date) LIKE '1987%';

20. SELECT first_name FROM employees WHERE first_name LIKE '%b%'AND first_name LIKE '%c%';

21. SELECT last_name, job_id, salary FROM employees WHERE job_id IN ('IT_PROG', 'SH_CLERK') AND salary NOT IN (4500,10000, 15000);

22. SELECT last_name FROM employees WHERE last_name LIKE '_____';

23. SELECT last_name FROM employees WHERE last_name LIKE '__e%';

24. SELECT job_id, GROUP_CONCAT(employee_id, ' ') 'Employees ID' FROM employees GROUP BY job_id;

25. UPDATE employees SET phone_number = REPLACE(phone_number, '124', '999') WHERE phone_number LIKE '%124%';

26. SELECT * FROM employees WHERE LENGTH(first_name) >= 8;

27.UPDATE employees SET email = CONCAT(email, '@example.com');

28. SELECT RIGHT(phone_number, 4) as 'Ph.No.' FROM employees;

29. SELECT location_id, street_address, SUBSTRING_INDEX(REPLACE(REPLACE(REPLACE(street_address,',',' '),')',' '),'(',' '),' ',-1)

AS 'Last--word-of-street_address'

FROM locations;

30. SELECT * FROM locations WHERE LENGTH(street_address) <= (SELECT MIN(LENGTH(street_address)))

FROM locations);

31. SELECT job_title, SUBSTR(job_title,1, INSTR(job_title, ' ')-1) FROM jobs;

32. SELECT first_name, last_name FROM employees WHERE INSTR(last_name,'C') > 2;

33. ELECT first_name "Name",LENGTH(first_name) "Length" FROM employees WHERE first_name LIKE 'J%'

OR first_name LIKE 'M%'

OR first_name LIKE 'A%'

ORDER BY first_name ;

34. SELECT first_name,LPAD(salary, 10, '$') SALARY FROM employees;

35. SELECT left(first_name, 8), REPEAT('$', FLOOR(salary/1000))

'SALARY($)', salary

FROM employees ORDER BY salary DESC;

36. SELECT employee_id,first_name,last_name,hire_date

FROM employees

WHERE POSITION("07" IN DATE_FORMAT(hire_date, '%d %m %Y'))>0;

Northwind Database Exercises

1. Write a query to get Product name and quantity/unit*/

> ➢ SELECT ProductName, QuantityPerUnit FROM Products;

2. Write a query to get current Product list (Product ID and name)*/

> ➢ SELECT ProductID, ProductName FROM Products WHERE Discontinued = "False" ORDER BY ProductName;

3. Write a query to get discontinued Product list (Product ID and name)*/

➢ SELECT ProductID, ProductName FROM Products WHERE Discontinued = 1 ORDER BY ProductName;

4. Write a query to get most expense and least expensive Product list (name and unit price)*/

➢ SELECT ProductName, UnitPrice FROM Products ORDER BY UnitPrice DESC;

5. Write a query to get Product list (id, name, unit price) where current products cost less than $20*/

➢ SELECT ProductID, ProductName, UnitPrice FROM Products WHERE (((UnitPrice)<20) AND ((Discontinued)=False)) ORDER BY UnitPrice DESC;

6. Write a query to get Product list (id, name, unit price) where products cost between $15 and $25*/

➢ SELECT ProductName, UnitPrice FROM Products

WHERE (((UnitPrice)>=15 And (UnitPrice)<=25)

AND ((Products.Discontinued)=False))

ORDER BY Products.UnitPrice DESC;

7. Write a query to get Product list (name, unit price) of above average price*/

➢ SELECT DISTINCT ProductName, UnitPrice FROM Products WHERE UnitPrice > (SELECT avg(UnitPrice) FROM Products) ORDER BY UnitPrice;

8. Write a query to get Product list (name, unit price) of ten most expensive products*/

> SELECT DISTINCT ProductName as
> Twenty_Most_Expensive_Products, UnitPrice FROM Products AS a

WHERE 20 >= (SELECT COUNT(DISTINCT UnitPrice) FROM Products AS b WHERE b.UnitPrice >= a.UnitPrice)

ORDER BY UnitPrice desc;

9. Write a query to count current and discontinued products*/

> SELECT Count(ProductName) FROM Products GROUP BY Discontinued;

10. Write a query to get Product list (name, units on order , units in stock) of stock is less than the quantity

on order*/

> SELECT ProductName, UnitsOnOrder , UnitsInStock FROM Products WHERE (((Discontinued)=False) AND ((UnitsInStock)<UnitsOnOrder));