

Quiz no. 1

Total marks: 60

Name: _____

Instructor: Sir Farhan Chaudary

Date : October 22, 2024

Roll no: _____

Question # 1:

10 marks (4+3+3)

1. What are the key characteristics of SQL statements?
2. What is a Column Alias in SQL? Explain its purpose and provide examples of how it is used?
3. What is the difference between the NVL and COALESCE functions in SQL?

EMP (EMPNO, ENAME, JOB, MGR, HIREDATE, SAL, COMM, DEPTNO)

DEPT (DEPTNO, DNAME, LOC)

SALGRADE (GRADE, LOSAL, HISAL)

Question # 2:

/3

Write a query to retrieve all the unique job titles from the EMP table. Your query should sort the results in alphabetical order of the job titles.

Question #3:

/5

Write a query to retrieve the employee name, job title, and salary for employees whose job title is either 'SALESMAN' or 'CLERK', and whose salary exceeds 1500. Sort the results by job title in descending order and then by salary in ascending order.

Question # 4 :

/6

Write a query to display the employee name, their salary, and the number of months they've been employed . Only include employees with a salary greater than 2000. The output should display the employee's name in uppercase, their salary padded with leading zeros (to a length of 10). Additionally, the results should be sorted by hire date in descending order.

Question # 5 :

/5

Write a query to display the employee name, job title, and department name for employees who are not working in departments 10, 20, or 30. Additionally, only include employees hired before January 1, 1990. The employee names should be converted to uppercase, and the department names should be trimmed of any extra spaces.

Question # 6 :

/5

Write a query to display the employee name, hire date, and job title for employees who were hired in either 1981 or 1982, and whose salary is either greater than the department's average salary or their job title contains the word 'ANALYST'. Display the hire date in the format 'DD-MON-YYYY'

Question # 7 : /4

Write a query to display the employee name, their job title, and their manager's name, but only for employees whose job titles start with the letter 'A' or contain the word 'CLERK'. If the employee does not have a manager, replace the manager's name with 'No Manager'

Question # 8 : /3

Write a query to display the employee name, job title, and total income (salary + commission), but only for employees whose commission is NULL or greater than 500.

Question # 9 : /3

Write a query that will identify all employees who work in departments located in the United Kingdom.

Question # 10 : /4

Write a query in SQL to display the first and last name, salary, and department ID for those employees who earn more than the maximum salary of a department which ID is 40

Question # 11 : /4

Write a SQL query to following the format "[Employee_Name] is working as a [Job_Title] in the [Department_Name] department." Only include employees who were hired after January 1, 1980, work in departments located in 'NEW YORK' or 'CHICAGO', and whose job title does not contain the word 'MANAGER'. Sort the results by department name and then by salary in descending order.

Question # 12 : /3

Display employee names and the number of months they have been working.

BOOKS (BOOKID, BOOKNAME, AUTHOR, BOOKCATEGORY, PUBLISHYEAR, BOOKPRICE)
ORDERS (ORDERID, BOOKID, CUSTOMERID, ORDERDATE, ORDERQTY, DISCOUNT, TOTAL AMOUNT)
CUSTOMERS (CUSTOMERID, CUSTOMERNAME, EMAIL, PHONE)

Question # 13 : /3

Write a query to display the book name and category for all books in the 'Fiction' category. Sort the results by book price in ascending order.

Question # 14 : /3

Write a query to display the customer name, book name, and book category for customers who ordered books in the 'Fiction' category.

Question # 15 : /3

Write a query to display the book name, author, and publish year for books that were published after 2015.