**B.TECH. (2020-24)**

**Artificial Intelligence**

**Lab File**

on

**Database Management Systems**

**[CSE201]**

**Logo

Description automatically generated**

Submitted To

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Submitted By

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**4CSE11 (AI)**

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

AMITY SCHOOL OF ENGINEERING AND TECHNOLOGY

AMITY UNIVERSITY UTTAR PRADESH

NOIDA (U.P)

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| --- | --- | --- | --- |
| S. No. | Name of Experiment  (Based on Employee and Department tables) | Date of Allotment | Signature of Faculty |
| 1 | **Write a query in SQL to display the last name and job title of all employees who do not have a manager** | 19/01/2022 |  |
| 2 | **Write a query in SQL to display the last name, salary, and commission of all employees who earn commissions. Sort data in descending order of salary and commissions.** | 19/01/2022 |  |
| 3 | **Write a query in SQL that prompts the user for a manager ID and generates the employee ID, last name, salary, and department for that manager's employees. The HR department wants the ability to sort the report on a selected column.** | 19/01/2022 |  |
| 4 | **Write a query in SQL to Display all employee last names in which the third letter of the name is a.** | 19/01/2022 |  |
| 5 | **Write a query in SQL to Display the last name of all employees who have both an a and an e in their last name.** | 02/02/2022 |  |
| 6 | **Write a query in SQL to Display the last name, job, and salary for all employees whose job is sales representative or stock clerk and whose salary is not equal to $2,500, $3,500, or $7,000.** | 02/02/2022 |  |
| 7 | **Write a query in SQL to display the employee number, last name, salary, and salary increased by 15.5% (expressed as a whole number) for each employee. Label the column New Salary.** | 02/02/2022 |  |
| 8 | **Create a report that produces the following for each employee: <employee last name> earns <salary> monthly but wants <3 times salary>. Label the column Dream Salaries.** | 09/02/2022 |  |
| 9 | **Create a query to display the last name and salary for all employees. Format the salary to be 15 characters long, left-padded with the $ symbol. Label the column SALARY.** | 09/02/2022 |  |
| 10 | **Display each employee's last name, hire date, and salary review date, which is the first Monday after six months of service. Label the column REVIEW. Format the dates to appear in the format similar to "Monday, the Thirty-First of July, 2000.”** | 09/02/2022 |  |
| 11 | **Display the last name, hire date, and day of the week on which the employee started. Label the column DAY. Order the results by the day of the week, starting with Monday.** | 09/02/2022 |  |

**SQL Queries**

**Based on Employee and Department tables, perform the following SQL queries:**

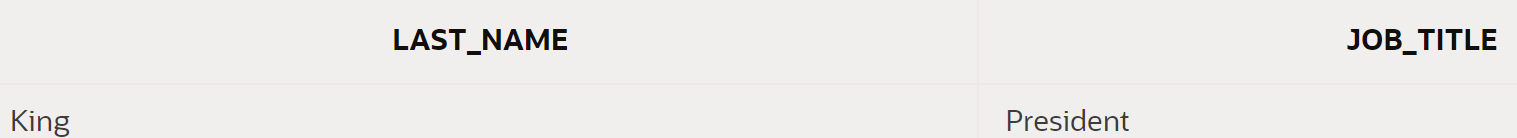
**1. Write a query in SQL to display the last name and job title of all employees who do not have a manager**

**SQL Query**

A picture containing graphical user interface

Description automatically generated

**OUTPUT**

****

**2. Write a query in SQL to display the last name, salary, and commission of all employees who earn commissions. Sort data in descending order of salary and commissions.**

**SQL Query**

**Text

Description automatically generated**

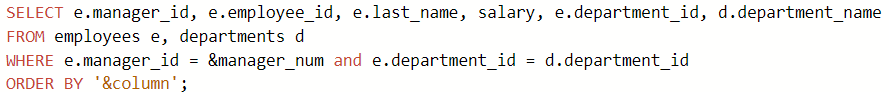
**OUTPUT**

**Table

Description automatically generated**

**3. Write a query in SQL that prompts the user for a manager ID and generates the employee ID, last name, salary, and department for that manager's employees. The HR department wants the ability to sort the report on a selected column.**

**SQL Query**

****

**INPUT**

**OUTPUT**

**Graphical user interface

Description automatically generated with medium confidence**

**4. Write a query in SQL to Display all employee last names in which the third letter of the name is a.**

**SQL Query**

**Text

Description automatically generated with medium confidence**

**OUTPUT**

**Background pattern

Description automatically generated**

**5. Write a query in SQL to Display the last name of all employees who have both an a and an e in their last name.**

**SQL Query**

**Logo, company name

Description automatically generated**

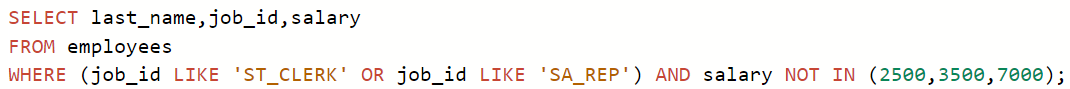
**OUTPUT**

**Background pattern

Description automatically generated**

**6. Write a query in SQL to Display the last name, job, and salary for all employees whose job is sales representative or stock clerk and whose salary is not equal to $2,500, $3,500, or $7,000.**

**SQL Query**

****

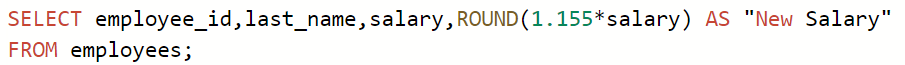
**OUTPUT**

**Graphical user interface, table

Description automatically generated with medium confidence**

**7. Write a query in SQL to display the employee number, last name, salary, and salary increased by 15.5% (expressed as a whole number) for each employee. Label the column New Salary.**

**SQL Query**

****

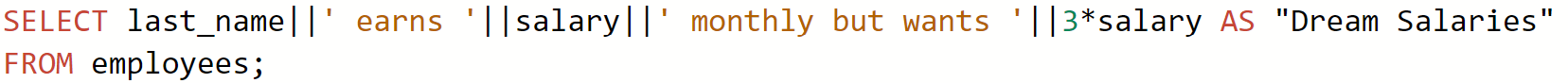
**OUTPUT**

**A picture containing graphical user interface

Description automatically generated**

**8. Create a report that produces the following for each employee: <employee last name> earns <salary> monthly but wants <3 times salary>. Label the column Dream Salaries.**

**SQL Query**

****

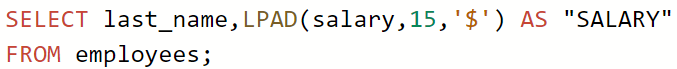
**OUTPUT**

**Table

Description automatically generated**

**9. Create a query to display the last name and salary for all employees. Format the salary to be 15 characters long, left-padded with the $ symbol. Label the column SALARY.**

**SQL Query**

****

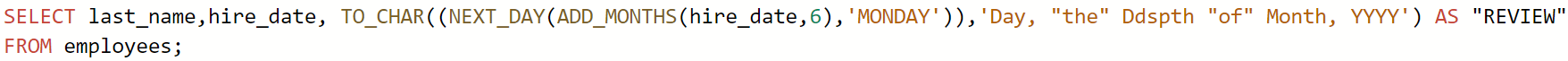
**OUTPUT**

**Table

Description automatically generated**

**10. Display each employee's last name, hire date, and salary review date, which is the first Monday after six months of service. Label the column REVIEW. Format the dates to appear in the format similar to "Monday, the Thirty-First of July, 2000.”**

**SQL Query**

****

**OUTPUT**

**Table

Description automatically generated**

**11. Display the last name, hire date, and day of the week on which the employee started. Label the column DAY. Order the results by the day of the week, starting with Monday.**

**SQL Query**

**A picture containing chart

Description automatically generated**

**OUTPUT**

**Table

Description automatically generated**