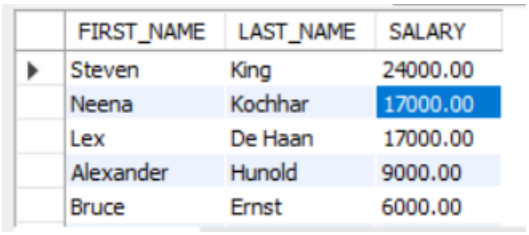
MySQL Restricting and Sorting data - Exercises, Practice, Solution

1.] Write a query to display the name (first_name, last_name) and salary for all employees whose salary is not in the range $10,000 through $15,000.

⇨ SELECT FIRST_NAME,LAST_NAME,SALARY FROM employees WHERE SALARY NOT BETWEEN 10000 AND 15000;

Output:

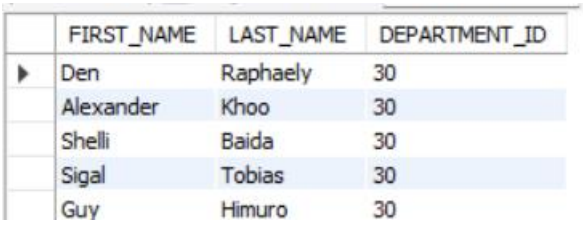


FIRST_NAME	LAST_NAME	SALARY
Steven	King	24000.00
Neena	Kochhar	17000.00
Lex	De Haan	17000.00
Alexander	Hunold	9000.00
Bruce	Ernst	6000.00

2.] Write a query to display the name (first_name, last_name) and department ID of all employees in departments 30 or 100 in ascending order.

⇨ SELECT FIRST_NAME,LAST_NAME,DEPARTMENT_ID FROM employees WHERE DEPARTMENT_ID IN (30,100) ORDER BY DEPARTMENT_ID ASC;

Output:

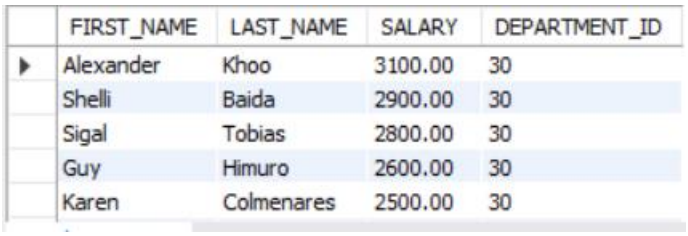


FIRST_NAME	LAST_NAME	DEPARTMENT_ID
Den	Raphaely	30
Alexander	Khoo	30
Shelli	Baida	30
Sigal	Tobias	30
Guy	Himuro	30

3.] Write a query to display the name (first_name, last_name) and salary for all employees whose salary is not in the range $10,000 through $15,000 and are in department 30 or 100.

⇨ SELECT FIRST_NAME,LAST_NAME,SALARY, DEPARTMENT_ID FROM employees WHERE SALARY NOT BETWEEN 10000 AND 15000 AND DEPARTMENT_ID IN(30,100);

Output:

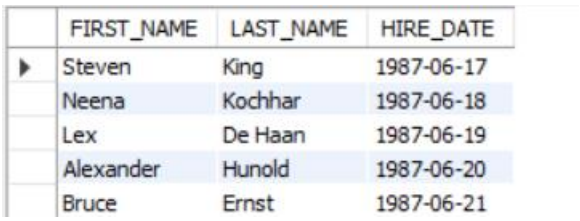


FIRST_NAME	LAST_NAME	SALARY	DEPARTMENT_ID
Alexander	Khoo	3100.00	30
Shelli	Baida	2900.00	30
Sigal	Tobias	2800.00	30
Guy	Himuro	2600.00	30
Karen	Colmenares	2500.00	30

4.] Write a query to display the name (first_name, last_name) and hire date for all employees who were hired in 1987.

⇨ SELECT FIRST_NAME,LAST_NAME,HIRE_DATE FROM employees WHERE YEAR(HIRE_DATE) LIKE '1987%';

Output:



FIRST_NAME	LAST_NAME	HIRE_DATE
Steven	King	1987-06-17
Neena	Kochhar	1987-06-18
Lex	De Haan	1987-06-19
Alexander	Hunold	1987-06-20
Bruce	Ernst	1987-06-21

5.] Write a query to display the first_name of all employees who have both "b" and "c" in their first name.

⇨ SELECT FIRST_NAME FROM employees WHERE FIRST_NAME LIKE '%b%' AND FIRST_NAME LIKE '%c%';

Output:

FIRST_NAME
Bruce

6.] Write a query to display the last name, job, and salary for all employees whose job is that of a Programmer or a Shipping Clerk, and whose salary is not equal to $4,500, $10,000, or $15,000.

⇨ SELECT LAST_NAME,JOB_ID,SALARY FROM employees WHERE JOB_ID IN('IT_PROG', 'SH_CLERK') AND SALARY NOT IN(4500,10000,15000);

Output:

LAST_NAME	JOB_ID	SALARY
Hunold	IT_PROG	9000.00
Ernst	IT_PROG	6000.00
Austin	IT_PROG	4800.00
Pataballa	IT_PROG	4800.00
Lorentz	IT_PROG	4200.00

7.] Write a query to display the last name of employees whose names have exactly 6 characters.

⇨ SELECT LAST_NAME FROM employees WHERE LAST_NAME LIKE '_____';

Output:

LAST_NAME
Austin
Bissot
Cabrio
Davies
Faviet

8.] Write a query to display the last name of employees having 'e' as the third character.

⇨ SELECT LAST_NAME FROM employees WHERE LAST_NAME LIKE '__E%';

Output:

LAST_NAME
Abel
Baer
Chen
Everett
Feeney

9.] Write a query to display the jobs/designations available in the employees table.

⇨ SELECT DISTINCT JOB_ID FROM employees;

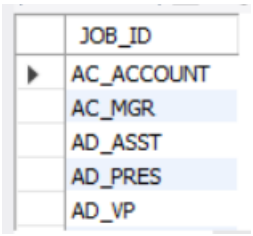
Output:

JOB_ID
AC_ACCOUNT
AC_MGR
AD_ASST
AD_PRES
AD_VP

10.] Write a query to display the name (first_name, last_name), salary and PF (15% of salary) of all employees.

- ⇨ SELECT FIRST_NAME,LAST_NAME,SALARY,SALARY * 0.15 AS PF FROM employees**;**

  Output:

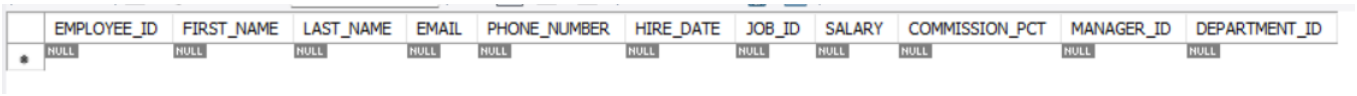


JOB_ID
AC_ACCOUNT
AC_MGR
AD_ASST
AD_PRES
AD_VP

11.] Write a query to select all record from employees where last name in 'BLAKE', 'SCOTT', 'KING' and 'FORD'.

- ⇨ SELECT * FROM employees WHERE FIRST_NAME IN ('JONES', 'BLAKE', 'SCOTT', 'KING', 'FORD');

  Output:



EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT	MANAGER_ID	DEPARTMENT_ID
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL