3/29/2023

SQL QUERIES

**CHRIST (DEEMED TO BE) UNIVERSITY**

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**CLASS:** 2MAECO

**REGISTRATION NO.:** 2237028

**TABLE: EMPLOYEE\_DETAILS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EMP\_ID | FULL\_NAME | MANAGER\_ID | DATE\_OF\_JOINING | CITY |
| 121 | **Kuldeep Ranna** | **321** | **01/03/2019** | **New Delhi** |
| 321 | **Arjun Roy** | **986** | **25/08/2019** | **Kolkata** |
| 421 | **Bikash Datta** | **896** | **04/05/2020** | **Jharkhand** |
| 586 | **Sandeep Gupta** | **485** | **08/12/2020** | **Mumbai** |

**TABLE: EMPLOYEE\_SALARY**

|  |  |  |  |
| --- | --- | --- | --- |
| EMP\_ID | PROJECT | SALARY | VARIABLE |
| 121 | **P1** | **8000** | **150** |
| 321 | **P2** | **10000** | **500** |
| 421 | **P1** | **12000** | **1000** |
| 586 | **P3** | **9000** | **250** |

**THE FOLLOWINGS ARE THE 10 SQL QUERIES AND THE SOLUTION TO THEM:**

1. **Write an SQL query to fetch the different projects available from the EMPLOYEE\_SALARY table.**

**Code:**

SELECT DISTINCT (PROJECT)

FROM EMPLOYEE\_SALARY;

**Output:**

P1

P2

P3

1. **Write an SQL query to fetch how many employees working in P1 project.**

**Code:**

SELECT COUNT(\*)

FROM EMPLOYEE\_SALARY

WHERE PROJECT= “P1”;

**Output:**

2

1. **Write an SQL query to find the employees' maximum, minimum and average salary.**

**Code:**

SELECT Max(Salary),

Min (Salary),

AVG(Salary)

FROM EMPLOYEE\_SALARY;

**Output:**

12000

8000

9750

1. **Write an SQL query to display the total salary of each employee adding the salary with variable value.**

**Code:**

SELECT EMP\_ID

SALARY+VARIABLE as Total\_Salary

FROM EMPLOYEE\_SALARY;

**Output:**

1850

10500

13000

9250

1. **Write an SQL query to fetch the employees whose name begins with any 2 characters and has “ju” in middle.**

**Code:**

SELECT FULL\_NAME

FROM EMPLOYEE\_DETAILS

WHERE FULL\_NAME LIKE ‘\_\_JU%’;

**Output:**

ARJUN ROY

1. **Write an SQL code to fetch project wise count of employees sorted by project’s count in descending order.**

**Code:**

SELECT PROJECT, count(EMP\_ID) as EMP\_PROJECT\_COUNT

FROM EMPLOYEE\_SALARY

GROUP BY PROJECT

ORDER BY EMP\_PROJECT\_COUNT DESC;

**Output:**

P1=2

P2=1

P3=1

1. **Write an SQL query to fetch records that are present in one table but not in the other table.**

**Code:**

SELECT EMPLOYEE\_SALARY.\*

FROM EMPLOYEE\_SALARY

LEFT JOIN

MANAGER\_SALARY USING (EMP\_ID)

WHERE MANAGER\_SALARY.EMPLD IS NULL;

**Output:**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| EMP\_ID | FULL\_NAME | MANAGER\_ID | DATE\_OF\_JOINING | CITY | PROJECT | SALARY | VARIA |
| 121 | **Kuldeep Ranna** | **321** | **01/03/2019** | **New Delhi** | **P1** | **8000** | **150** |
| 321 | **Arjun Roy** | **986** | **25/08/2019** | **Kolkata** | **P2** | **10000** | **500** |
| 421 | **Bikash Datta** | **896** | **04/05/2020** | **Jharkhand** | **P1** | **12000** | **1000** |
| 586 | **Sandeep Gupta** | **485** | **08/12/2020** | **Mumbai** | **P3** | **9000** | **250** |

1. **Write a query to fetch all the employees who are also managers from the EMPLOYEE\_DETAILS TABLE.**

**Code:**

SELECT DISTINCT FULL\_NAME

FROM EMPLOYEE\_DETAILS

INNER JOIN EMPLOYEE\_DETAILS

ON EMP\_ID=MANAGER\_ID;

**Output:**

KULDEEP RANA

1. **Write an SQL query to fetch all employee details from the EMPLOYEE\_DETAILS table who joined in the year 2020.**

**Code:**

SELECT \*

FROM EMPLOYEE\_DETAILS

WHERE DATE\_OF\_JOINING BETWEEN ‘01/01/2020’

AND ‘31/12/2020’;

**Output:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| EMP\_ID | FULL\_NAME | MANAGER\_ID | DATE\_OF\_JOINING | CITY |
| 421 | **Bikash Datta** | **896** | **04/05/2020** | **Jharkhand** |
| 586 | **Sandeep Gupta** | **485** | **08/12/2020** | **Mumbai** |

1. **Write an SQL query to fetch the EMP\_ID that are present in EMPLOYEE\_DETAILS but not in EMPLOYEE\_SALARY.**

**Code:**

SELECT EMP\_ID

FROM EMPLOYEE\_DETAILS

WHERE EMP\_ID NOT IN EMPLOYEE\_SALARY

**Output:**

NULL