Consider the below two tables for reference while trying to solve the **SQL queries for practice**.

**Table – EmployeeDetails**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EmpId** | **FullName** | **ManagerId** | **DateOfJoining** | **City** |
| 121 | John Snow | 321 | 01/31/2019 | Toronto |
| 321 | Walter White | 986 | 01/30/2020 | California |
| 421 | Kuldeep Rana | 876 | 27/11/2021 | New Delhi |

**Table – EmployeeSalary**

|  |  |  |  |
| --- | --- | --- | --- |
| **EmpId** | **Project** | **Salary** | **Variable** |
| 121 | P1 | 8000 | 500 |
| 321 | P2 | 10000 | 1000 |
| 421 | P1 | 12000 | 0 |

**Ques.1. Write an SQL query to fetch the EmpId and FullName of all the employees working under the Manager with id – ‘986’.**

**Select EmpId,FullName from EmployeeDetails where ManagerId=986;**

**Ques.2. Write an SQL query to fetch the different projects available from the EmployeeSalary table.**

**Select Distinct(Project) from EmployeeSalary;**

**Ques.3. Write an SQL query to fetch the count of employees working in project ‘P1’.**

**Select COUNT(\*) from EmployeeSalary where Project=’P1’;**

**Ques.4. Write an SQL query to find the maximum, minimum, and average salary of the employees.**

**Select Min(Salary)minimum, Avg(Salary)average, Max(Salary)maximum from EmployeeSalary;**

**Ques.5. Write an SQL query to find the employee id whose salary lies in the range of 9000 and 15000.**

**Select EmpId,Salary from EmployeeSalary where Salary Between 9000 AND 15000;**

**Ques.6. Write an SQL query to fetch those employees who live in Toronto and work under the manager with ManagerId – 321.**

**Select EmpId,FullName from Employeedetail where ManagerId=321 AND City=’Toronto’;**

**Ques.7. Write an SQL query to** f**etch all the employees who either live in California or work under a manager with ManagerId – 321.**

**Select EmpId,FullName from EmployeeDetails where ManagerId=’321’ OR City=’California’;**

**Ques.8. Write an SQL query to fetch all those employees who work on Projects other than P1.**

**Select EmpId from EmployeeSalary where NOT Project=’P1’;**

**Ques.9. Write an SQL query to display the total salary of each employee adding the Salary with Variable value.**

**Select EmpId, Salary+variable as TotalSalary from EmployeeSalary;**

**Ques.10. Write an SQL query to fetch the employees whose name begins with any two characters, followed by a text “hn” and ends with any sequence of characters.**

**Select \* from EmployeeDetails where Fullname LIKE ‘\_\_hn%’;**

**Ques.11. Write an SQL query to fetch all the EmpIds which are present in either of the tables – ‘EmployeeDetails’ and ‘EmployeeSalary’.**

**Select EmpId from EmployeeDetails UNION select EmpId from EmployeeSalary;**

**Ques.12. Write an SQL query to fetch common records between two tables.**

**Select \* from Employeedetails ED JOIN EmployeeSalary ES on ES.EmpId=ED.EmpId;**

**Ques.13. Write an SQL query to fetch records that are present in one table but not in another table.**

**Select \* from EmployeeDetails EXCEPT select \* from EmployeeSalary;**

**Ques.14. Write an SQL query to fetch the EmpIds that are present in both the tables –   ‘EmployeeDetails’ and ‘EmployeeSalary.**

**Select EmpId from EmployeeDatails where EmpId IN(select EmpId from EmployeSalary);**

**Ques.15. Write an SQL query to fetch the EmpIds that are present in EmployeeDetails but not in EmployeeSalary.**

**Select EmpId from EmployeeDetails where EmpId NOT IN(select EmpId from EmployeeSalary);**

**Ques.16. Write an SQL query to fetch the employee’s full names and replace the space with ‘-’.**

**Select FullName, Replace(FullName,’ ‘,’-‘) from EmployeeDetails;**

**Ques.17. Write an SQL query to fetch the position of a given character(s) in a field.**

**Select INSTR(FullName,’Snow’) from EmployeeDetails;**

**Ques.18. Write an SQL query to display both the EmpId and ManagerId together.**

**Select EmpId,ManagerId from EmployeeDetails;**

**Ques.19. Write a query to fetch only the first name(string before space) from the FullName column of the EmployeeDetails table.**

**Ques.20. Write an SQL query to uppercase the name of the employee and lowercase the city values.**

**Select UPPER(FullName),LOWER(City) from EmployeeDetails;**

**Ques.21. Write an SQL query to find the count of the total occurrences of a particular character – ‘n’ in the FullName field.**

**Select FullName,LENGTH(FullName)-LENGTH(Replace(FullName,’n’,”)) from EmployeeDetails;**

**Ques.22. Write an SQL query to update the employee names by removing leading and trailing spaces.**

**Update Employeedetails set FullName=TRIM(FullName);**

**Ques.23. Fetch all the employees who are not working on any project.**

**Select EmpId from EmployeeSalary where Project IS NULL;**

**Ques.24. Write an SQL query to fetch employee names having a salary greater than or equal to 5000 and less than or equal to 10000.**

**Select FullName from EmployeeDetails where EmpId IN(select EmpId from Employeesalary where Salary BETWEEN 5000 AND 10000);**

**Ques.25. Write an SQL query to find the current date-time.**

**Select GETDATE();**

**Ques.26. Write an SQL query to fetch all the Employee** details from the **EmployeeDetails table who joined in the Year 2020.**

**Select \* from EmployeeDetails where DateOfJoining BETWEEN ‘2020/01/01’ AND ‘2020/12/31’;**

**Ques.27. Write an SQL query to fetch all employee records from the EmployeeDetails table who have a salary record in the EmployeeSalary table.**

**Select \* from EmployeeDetails where EmpId IN(Select EmpId from EmployeeSalary);**

**Ques.28. Write an SQL query to fetch the project-wise count of employees sorted by project’s count in descending order.**

**Select Project,Count(EmpId) EmpProjectCount**

**From EmployeeSalary**

**GroupBy Project**

**OrderBy EmpProjectCount DESC;**

**Ques.29. Write a query to fetch employee names and salary records. Display the employee details even if the salary record is not present for the employee.**

**Select E.FullName, S.salary from EmployeeDetails E LEFT JOIN**

**EmployeeSalary S**

**ON E.EmpId =S. EmpId;**

**Ques. 30. Write an SQL query to fetch all the Employees who are also managers from the EmployeeDetails table.**

**Select B.\* from EmployeeDetails A JOIN Employessdetails B ON A.ManagerId=B.EmpId;**