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’.**

**Ans :**

**Select Emp\_id,Full\_name from employee\_details where Manager\_id=986;**

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

**Ans : Select Distinct (project) from employee\_salary;**

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

**Ans : Select emp\_id, count(\*) from employees where project =P1;**

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

**Ans :**

**Select max(salary) from employee\_salary;**

**Select min(salary) from employee\_salary;**

**Select avg(salary) from employee\_salary;**

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

**Ans :**

**Select emp\_id,salary from employee\_salary 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.**

**Ans :**

**Select emp\_id from employee where City =’ Toronto’ and Manager\_id=’321’;**

**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.**

**Ans :**

**Select emp\_id from employee where City =’ California’ OR Manager\_id =’321’;**

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

**Ans : Select \* from employee\_salary where NOT Project=’P1’;**

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

**Ans : Select EmpId, Salary+Variable as TotalSalary From employee\_salary;**

**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.**

**Ans : SELECT \* FROM EmployeeDetails WHERE EmployeeName LIKE '\_\_hn%';**

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

**Ans :**

**SELECT EmpId FROM EmployeeDetails UNION SELECT EmpId FROM EmployeeSalary;**

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

**Ans :**

SELECT \* FROM EmployeeSalary WHERE EmpId IN

(SELECT EmpId from ManagerSalary);

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

**Ans :**

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

**Ans :**

SELECT EmpId FROM EmployeeDetails where EmpId IN (SELECT EmpId FROM EmployeeSalary);

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

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

**Ans :**

SELECT INSTR(FullName, 'Snow')FROM EmployeeDetails;  
  
**Ques.18. Write an SQL query to display both the EmpId and ManagerId together.**

**Ans :**

SELECT CONCAT(EmpId, ManagerId) as NewId FROM EmployeeDetails;

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

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

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.**

**Ans :**

SELECT FullName, Locate('n', FullName) from EmployeeDetails ;  
  
**Ques.22. Write an SQL query to update the employee names by removing leading and trailing spaces.**

**Ans :**

UPDATE EmployeeDetails SET FullName = LTRIM(RTRIM(FullName));

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

**Ans :**

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.**

**Ans :**

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.**

**Ans :**

SELECT NOW();

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

SELECT \* FROM EmployeeDetails WHERE YEAR(DateOfJoining) = '2020';

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

**Ans :**

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

**Ans :**

SELECT Project, count(EmpId) FROM EmployeeSalary GROUP BY Project ORDER BY 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.**  
**Ans :**

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.**

**Ans :**