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 max(salary), min(salary), avg(salary) 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, city ,managerid, from employeedetails where city='toronto' and managerid=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.**

select empid, city, managerid from employeedetails where city='california' or managerid=321;

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

select empid from employeesalary where 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 fullname 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 where empid in (select empid from employeesalary) ;

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

select e1.empid from employeedetails e1 left join employeesalary e2 on e2.empid=e1.empid where e2.empid is null;  
   
**Ques.14. Write an SQL query to fetch the EmpIds that are present in both the tables –   ‘EmployeeDetails’ and ‘EmployeeSalary.**

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.**

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 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,'w') from employeedetails;  
   
**Ques.18. Write an SQL query to display both the EmpId and ManagerId together.**

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.**

 select mid(fullname,1,locate(' ',fullname)) as fname from employeedetails;

**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','')) as occurence from employeedetails;

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

update employeedetails set fullname= ltrim(rtrim(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 now();

**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 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.**

select \* from employeedetails e where exists (select \* from employeesalary s where e.empid = s.empid);

**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 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.**

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 distinct e.fullname from employeedetails e inner join employeedetails m on e.empid = m.managerid;