

Table – employeedetails

EmpId	FullName	ManagerId	DateOfJoining	City
121	John Snow	321	01/31/2014	Toronto
321	Walter White	986	01/30/2015	California
421	Kuldeep Rana	876	27/11/2016	New Delhi

Table – employeesalary

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

Creating Database and tables

```
1 create database sql_q_for_interview;
2
3 create table employeedetails(
4   EmpID integer primary key,
5   FullName varchar(30),
6   ManagerID integer,
7   DateOfJoining DATE,
8   City Varchar (15)
9 );
10
11 create table employeesalary(
12   EmpID integer primary key,
13   Project varchar(10),
14   Salary integer,
15   variable integer
16 );
```

Inserting values to tables

```
18 insert into employeeetails
19 values(121,'John Snow',321,'2014-01-31','Toronto');
20
21 insert into employeeetails
22 values(321,'Walter White',986,'2015-01-30','California');
23
24 insert into employeeetails
25 values(421,'Kuldeep Rana',876,'2016-11-27','New Delhi');
26
27 select * from employeeetails;
```

```
29 insert into employeesalary
30 values(121,'P1',8000,500);
31
32 insert into employeesalary
33 values(321,'P2',10000,1000);
34
35 insert into employeesalary
36 values(421,'P1',12000,0);
37
38 select * from employeesalary;
```

-- Question 1

```
40 -- question 1
41 -- write sql query to fetch the EmpID and FullName of all the employees
42 -- working under Manager with id - '986'
43
44 select EmpID, FullName
45 from employeeetails
46 where EmpID in
47 (
48     select EmpID from employeeetails
49     where ManagerID = 986
50 );
```

-- Question 2

```
52 -- question 2
53 -- write an sql query to fetch the different projects
54 -- available from the employeesalary table
55
56 select distinct Project
57 from employeesalary;
```

-- Question 3

```
59 -- question 3
60 -- write an sql query to fetch the count
61 -- of employees working in project 'P1'
62
63 select count(*) total_employee
64 from employeesalary
65 where EmpID in (
66     select EmpID from employeesalary
67     where Project = 'P1'
68 );
```

-- Question 4

```
70 -- question 4
71 -- write an sql query to find the
72 -- maximum, minimum, and average salary of the employees
73
74 select max(Salary) as Max_salary,
75 min(Salary) as Min_Salary,
76 avg(salary) as AVG_Salary
77 from employeesalary;
```

-- Question 5

```
79 -- question 5
80 -- write an sql query to find the employee id
81 -- whose salary lies in the range of 9000 and 15000
82
83 select *
84 from employeesalary;
85
86 select EmpID, Salary
87 from employeesalary
88 where Salary in
89 (
90     select Salary from employeesalary
91     where Salary between 9000 and 15000
92 );
```

-- Question 6

```
94 -- question 6
95 -- write and sql query to fetch those employees who live in toronto
96 -- and work under manager with ManagerID - '321'
97
98 select EmpID, City, ManagerID
99 from employeeedetails
100 where ManagerID in
101 (
102     select ManagerID from employeeedetails
103     where ManagerID = '321'
104     and City = 'Toronto'
105 );
```

-- Question 7

```
107 -- question 7
108 -- write and sql query to fetch all the employees who live in california
109 -- or work under a manager with ManagerID - '321'
110
111 select EmpID, City, ManagerID
112 from employeeedetails
113 where ManagerID in
114 (
115     select ManagerID from employeeedetails
116     where City = 'California'
117     or ManagerID = 321
118 );
```

-- Question 8

```
120 -- question 8
121 -- write an sql query to fetch all those employees
122 -- who work on project other than 'P1'
123
124 select EmpID, Project
125 from employeesalary
126 where Project not in
127 (
128     select Project from employeesalary
129     where Project = 'P1'
130 );
```

-- Question 9

```
132 -- question 9
133 -- write an sql query to display the total salary of each employee
134 -- adding the salary with variable value
135
136 select EmpID, Salary+'$' as TotalSalary
137 from employeesalary;
```

-- Question 10

```
139 -- question 10
140 -- write an sql query to fetch the employees whose name begins with any two characters,
141 -- followed by a text "hn" and ending with any sequence of characters
142
143 select FullName
144 from employeeetails
145 where FullName like '__hn%';
```

-- Question 11

```
147 -- question 11
148 -- write an sql query to fetch all the EmpIDs which are present
149 -- in either of the tables - 'employeeetails' and 'employeesalary'
150
151 SELECT EmpId FROM EmployeeDetails
152 UNION
153 SELECT EmpId FROM EmployeeSalary;
```

-- Question 12

```
155 -- question 12
156 -- write an sql query to fetch common record between two tables
157
158 select *
159 from employeesalary
160 where EmpID in
161 (
162     select EmpID from ManagerSalary
163 );
```

-- Question 13

```
165 -- question 13
166 -- write an sql query to fetch records that are present
167 -- in one table but not in another table
168
169 select es.*
170 from employeesalary es
171 join employeeedetails ed
172 on es.EmpID = ed.EmpID
173 where es.EmpID in
174 (
175     select ed.EmpID is null
176 );
```

-- Question 14

```
178 -- question 14
179 -- write an sql query to fetch the EmpIDs that are present in both
180 -- the tables 'employeeedetails' and 'employeesalary'
181
182 select EmpID
183 from employeeedetails
184 where EmpID in
185 (
186     select EmpID from employeesalary
187 );
```

-- Question 15

```
189 -- question 15
190 -- write an sql query to fetch the EmpIDs that are present in 'employeeedetails'
191 -- but not in the 'employeesalary'
192
193 select EmpID
194 from employeeedetails
195 where EmpID not in
196 (
197     select EmpID from employeesalary
198 );
```

-- Question 16

```
201 -- question 16
202 -- write an sql query to fetch the employee full names
203 -- and replace the space with '-'
204
205 select replace(FullName, ' ', '-')
206 from employeeedetails;
```

-- Question 17

```
208 -- question 17
209 -- write an sql query to fetch the position of a given
210 -- character(s) in a field
211
212 select instr(FullName, 'Walter')
213 from employeeetails;
```

-- Question 18

```
215 -- question 18
216 -- write an sql query to display both
217 -- the EmpID and ManagerID together
218
219 select concat(EmpID, ManagerID) as NewID
220 from employeeetails;
```

-- Question 19

```
222 -- question 19
223 -- write a query to fetch only the first name (string before space)
224 -- from the FullName column of the employeeetails table
225
226 select mid(FullName, 1, locate(' ',FullName))
227 from employeeetails;
```

-- Question 20

```
229 -- question20
230 -- write an sql query to uppercase the name of the employee
231 -- and lowercase the city values
232
233 select upper(FullName), lower(City)
234 from employeeetails;
```

-- Question 21

```
49 -- question 21
50 -- fetch all the employees who are not working on any project
51
52 select *
53 from employeedetails
54 where EmpId in
55 (
56     select EmpID from employeesalary
57     where Project != 'P1' and 'P2'
58 );
```

-- Question 22

```
60 -- question 22
61 -- write an sql query to fetch employee names
62 -- having a salary greater than or equal to 5000 and less than or equal to 10000
63
64 select FullName
65 from employeedetails
66 where EmpID in
67 (
68     select EmpID from employeesalary
69     where Salary between 5000 and 10000
70 );
```

-- Question 23

```
72 -- question 23
73 -- write an sql query to find the current date time
74
75 select current_date();
```

-- Question 24

```
77 -- question 24
78 -- write an sql query to fetch all the employee details from employemployeeedetails
79 -- table who joined in the year 2020
80
81 select * from employeedetails
82 where
83 (
84     select year(DateOfJoining)='2020'
85 );
```


-- Question 25

```
87 -- question 25
88 -- write an sql query to fetch all the employee record from empemployeedetails
89 -- table who have a salary record in employeesalary table
90
91 select * from employeedetails ed
92 where exists
93 (
94     select * from employeesalary es
95     where ed.EmpID = es.EmpID
96 );
```

-- Question 26

```
98 -- question 26
99 -- write an sql query to fetch project-wise count of employees
100 -- sorted by project's count in descending order
101
102 select Project, count(EmpID) TotalEmployee
103 from employeesalary
104 group by Project
105 order by TotalEmployee Desc;
```

-- Question 27

```
107 -- question 27
108 -- write a query to fetch employee names and salary records
109 -- display the employee details even if the salary record is not present for the employee
110
111 select ed.FullName, es.Salary
112 from employeedetails ed
113 left join employeesalary es
114 on ed.EmpID = es.EmpID;
```

-- Question 28

```
116 -- question 28
117 -- write an sql query to join 3 tables
118
119 select a.EmpID, b.Salary, c.ManagerID
120 from employeedetails a
121 join (employeesalary b cross join managerdetails c)
122 on (a.EmpID = b.EmpID and b.ManagerID = c.ManagerID);
```

-- Question 29

```
124 -- question 29
125 -- write an sql query to fetch all the employees
126 -- who are also managers from employeeetails table
127
128 select *
129 from employeeetails
130 where EmpID in
131 (
132     select ManagerID from employeeetails
133 );
```

-- Question 30

```
135 -- question 30
136 -- write an sql query to fetch duplicate records from empemployeeetails
137 -- (without considering the primary key - 'EmpID')
138
139 select FullName, ManagerId, DateOfJoining, City, count(*) Total
140 from employeeetails
141 group by FullName, ManagerID, DateOfJoining, City
142 having count(*) > 0;
```

-- Question 31

```
144 -- question 31
145 -- write an sql query to fetch only odd rows from the table
146
147 select es.EmpID, es.Project, es.Salary
148 from(
149     select *, Row_Number() over(order by EmpID) as RowNumber
150     from employeesalary
151 ) es
152 where es.RowNumber % 2 = 1;
```

-- Question 32

```
154 -- question 32
155 -- write an sql query to fetch only even rows from the table
156
157 select es.EmpID, es.Project, es.Salary
158 from(
159     select *, Row_Number() over(order by EmpID) as RowNumber
160     from employeesalary
161 ) es
162 where es.RowNumber % 2 = 0;
```

-- Question 33

```
164 -- question 33
165 -- write an sql query to create a new table
166 -- with data and structure copied from another table
167
168 create table employeesalaryduplicate
169 select * from employeesalary;
```