



SQL Queries with Answer

For this tutorial i am using following tables:-

Table Name:- Employee

Empid	EmpName	Department	ContactNo	EmailId	EmpHeadId
101	Isha	E-101	1234567890	isha@gmail.com	105
102	Priya	E-104	1234567890	priya@yahoo.com	103
103	Neha	E-101	1234567890	neha@gmail.com	101
104	Rahul	E-102	1234567890	rahul@yahoo.com	105
105	Abhishek	E-101	1234567890	abhishek@gmail.com	102

Schema:-

```
create table employee(empid int primary key,empname varchar(100), department varchar(50),contactno  
varchar(100), empheadid int)
```

Table :- EmpDept

DeptId	DeptName	Dept_off	DeptHead
E-101	HR	Monday	105

E-102	Development	Tuesday	101
E-103	Hous Keeping	Saturday	103
E-104	Sales	Sunday	104
E-105	Purchase	Tuesday	104

Schema:-

```
create table empdept(deptid varchar(50) primary key,deptname varchar(100), dept_off varchar(100), c
references employee(empid))
```

Table :- EmpSalary

EmpId	Salary	IsPermanent
101	2000	Yes
102	10000	Yes
103	5000	No
104	1900	Yes
105	2300	Yes

Schema:-

```
create table empsalary(empid int foreign key references employee(empid), salary bigint, ispermanent
```

Ad covered
content

Seen this ad
multiple times

Not interested
in this ad

Ad was
inappropriate

Table :- Project

ProjectId	Duration
p-1	23
p-2	15
p-3	45
p-4	2
p-5	30

Schema:-

```
create table project(projectid varchar(50) primary key, duration int)
```

Table :- Country

cid	cname
c-1	India
c-2	USA
c-3	China
c-4	Pakistan
c-5	Russia

Schema:-

```
create table country(cid varchar(50) primary key, cname varchar(100))
```

Table :- ClientTable

ClientId	ClientName	cid
cl-1	ABC Group	c-1
cl-2	PQR	c-1
cl-3	XYZ	c-2
cl-4	tech altum	c-3
cl-5	mnp	c-5

Schema:-

```
create table clienttable(clientid varchar(50) primary key, clientname varchar(100), cid varchar(50)  
country(cid))
```

Table :- EmpProject

EmpId	ProjectId	ClientID	StartYear	EndYear
101	p-1	C1-1	2010	2010
102	p-2	C1-2	2010	2012
103	p-1	C1-3	2013	
104	p-4	C1-1	2014	2015
105	p-4	C1-5	2015	

Schema:-

```
create table empproject(empid int foreign key references employee(empid), projectid varchar(50) for  
project(projectid), clientid varchar(50) foreign key references clienttable(clientid), startyear int
```

Queries:-

Simple Queries

1. Select the detail of the employee whose name start with P.

```
select * from employee where empname like 'p%'  
output:-
```

	empid	empname	department	contactno	emaildid	emphea...
1	102	priya	E-104	1234567890	priya@yahoo.com	103

2. How many permanent candidate take salary more than 5000

```
select count(salary) as count from empsalary where ispermanent='yes' and salary>5000  
output:-
```

	count
1	1

3. Select the detail of employee whose emailid is in gmail.

```
select * from employee where emaildid like '%@gmail.com'  
output:-
```

	empid	empname	department	contactno	emaildid	emphea...
1	101	isha	E-101	1234567890	isha@gmail.com	105
2	103	neha	E-101	1234567890	neha@gmail.com	101

4. Select the details of the employee who work either for department E-102 or E-104.

```
select * from employee where department='E-102' or department='E-104'
```

or

```
select * from employee where department in ('E-102','E-104')  
output:-
```

	empid	empname	departm...	contactno	emaillid	empheadid
1	102	priya	E-104	1234567890	priya@yahoo.com	103
2	104	rahul	E-102	1234567890	rahul@yahoo.com	105

5. What is the department name for DeptID E-102?

select deptname from empdept where deptid = 'E-102'
output:-

deptname
Development

6. What is total salary that is paid to permanent employees?

select sum(salary) as salary from empsalary where ispermanent='yes'
output:-

salary
16200

7. List name of all employees whose name ends with a.

select * from employee where empname like '%a'
output:-

	empid	empname	department	contactno	emaillid	empheadid
1	101	isha	E-101	1234567890	isha@gmail.com	105
2	102	priya	E-104	1234567890	priya@yahoo.com	103
3	103	neha	E-101	1234567890	neha@gmail.com	101

8. List the number of department of employees in each project.

```
select count(empproject) as employee, projectid from empproject group by projectid  
output:-
```

	employ...	projectid
1	2	p-1
2	1	p-2
3	2	p-4

9. How many project started in year 2010.

```
select count(projectid) as project from empproject where startyear=2010  
output:-
```

	project
1	2

10. How many project started and finished in the same year.

```
select count(projectid) as project from empproject where startyear=endyear  
output:-
```

	project
1	1

11. select the name of the employee whose name's 3rd character

```
select * from employee where empname like '__h%'  
output:-
```

Results Messages

	empid	empname	departm...	contactno	emailid	empheadid
1	101	isha	E-101	1234567890	isha@gmail.com	105
2	103	neha	E-101	1234567890	neha@gmail.com	101
3	104	rahul	E-102	1234567890	rahul@yahoo.com	105
4	105	abhishek	E-101	1234567890	abhishek@ygmail.com	102

Get your idea online.

Bring your business online. Our 24/7 guides can help.

in.godaddy.com

Nested Queries

1. Select the department name of the company which is assigned to employee whose employee id is greater than 103.

```
select deptname from empdept where deptid in (select department from employee where empid>103)
output:-
```

Results Messages

	deptname
1	HR
2	Development

2. Select the name of the employee who is working under Abhi:

```
select empname from employee where empheadid =(select empid from employee where empname='abhishek')
output:-
```

Results	
	empname
1	isha
2	rahul

3. Select the name of the employee who is department head of

```
select empname from employee where empid =(select depthead from empdept where deptname='hr')
output:-
```

Results	
	empname
1	abhishek

4. Select the name of the employee head who is permanent.

```
select empname from employee where empid in(select empheadid from employee) and empid in(select emp
ispermanent='yes')
output:-
```

Results	
	empname
1	isha
2	priya
3	abhishek

5. Select the name and email of the Dept Head who is not Perm

```
select empname, emaildid from employee where empid in(select depthead from empdept ) and empid in(select empsalary where ispermanent='no')  
output:-
```

A screenshot of a SQL query results window. The title bar says "100 %". Below it are two tabs: "Results" (selected) and "Messages". The results table has two columns: "empname" and "emaildid". There is one row with the value "neha" in the "empname" column and "neha@gmail.com" in the "emaildid" column.

	empname	emaildid
1	neha	neha@gmail.com

6. Select the employee whose department off is monday

```
select * from employee where department in(select deptid from empdept where dept_off='monday')  
output:-
```

A screenshot of a SQL query results window. The title bar says "100 %". Below it are two tabs: "Results" (selected) and "Messages". The results table has seven columns: "empid", "empna...", "department", "contactno", "emaildid", and "empheadid". There are three rows: Row 1 (empid 101) has empna... "isha" and emaildid "isha@gmail.com"; Row 2 (empid 103) has empna... "neha" and emaildid "neha@gmail.com"; Row 3 (empid 105) has empna... "abhishek" and emaildid "abhishek@ygmail.com".

	empid	empna...	department	contactno	emaildid	empheadid
1	101	isha	E-101	1234567890	isha@gmail.com	105
2	103	neha	E-101	1234567890	neha@gmail.com	101
3	105	abhishek	E-101	1234567890	abhishek@ygmail.com	102

Get your idea online.

Bring your business online. Our 24/7 guides can help.

7. select the indian clients details.

```
select * from clienttable where cid in(select cid from country where cname='india')  
output:-
```

	clientid	clientname	cid
1	cl-1	ABC Group	c-1
2	cl-2	PQR	c-1

8. select the details of all employee working in development de

Video Tutorial for Basic SQL Queries

SQL Queries for Practice - Part 2 - SQL Queries based on A...




