

# MySQL DataBase Queries for Selenium Automation Testing Interviews

Hi Guys ,

While working as an Automation Test Engineer or in any Automation Testing Interviews, we have to deal with database most of the time.

In this post I am sharing frequently asked MySQL Queries which will be very useful in Interview.

## 1-Create MySQL DataBase

```
create database Devtest;
```

## 2-Select database:

We need to select Database before using it.

```
use Devtest;
```

## 3-Create Table:

Table 1: Employees:

```
create table Employees(Employee_id varchar(10) not null, First_name  
varchar(20), Last_name varchar(20), Salary int(10), Joining_date datetime ,  
Department varchar(20) );
```

Table 2: incentives:

```
create table incentives(Employee_id varchar(10) not null, First_name  
varchar(20), Last_name varchar(20), Salary int(10), Joining_date datetime ,  
Department varchar(20) );
```

## 4-Insert Record to Tables:

Insert Record to Table1:

```
Insert into Employees  
(Employee_id, First_name, Last_name, Salary, Joining_Date, Department)  
Values(1, "John", "Abraham", 100000, "13-01-01 12:00:00", "Banking"),  
(2, "Michael", "Clarke", 80000, "13-01-01 12:00:00", "Insurance"),  
(3, "Virat", "Kohli", 70000, "13-02-01 12:00:00", "Banking"),  
(4, "Anil", "Kumble", 60000, "13-02-01 12:00:00", "Insurance"),
```

```
(5,"Bryan","Lara",65000,"13-02-01 12:00:00","Insurance"),
(6,"Amit","Kumar",75000,"13-01-01 12:00:00","Services");
```

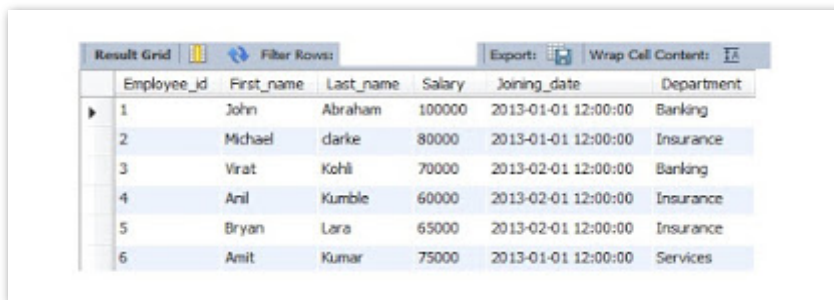
Insert Record to Table2:

```
Insert into Incentive (Employee_ref_id,Incentive_date,Incentive_amount)
Values(1,"13-02-01 12:00:00",5000),
(2,"13-02-01 12:00:00",3000),
(1,"13-01-01 12:00:00",4500),
(2,"13-01-01 12:00:00",3500),
(3,"13-02-01 12:00:00",4000);
```

## 5- Get All Records from Table

Table 1: Employees

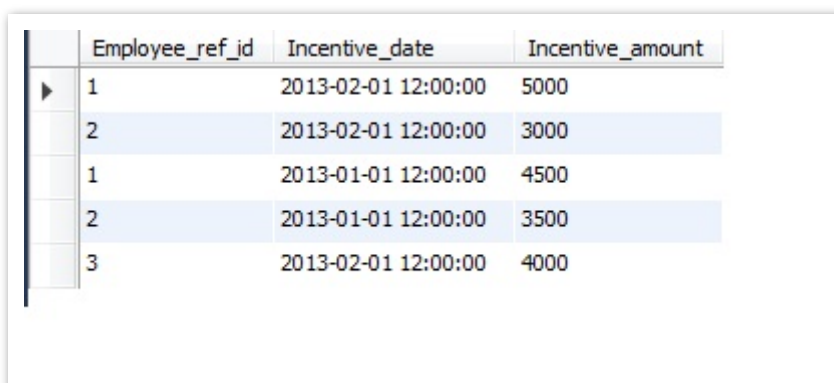
```
select * from Employees ;
```



Employee_id	First_name	Last_name	Salary	Joining_date	Department
1	John	Abraham	100000	2013-01-01 12:00:00	Banking
2	Michael	darke	80000	2013-01-01 12:00:00	Insurance
3	Virat	Kohli	70000	2013-02-01 12:00:00	Banking
4	Anil	Kumble	60000	2013-02-01 12:00:00	Insurance
5	Bryan	Lera	65000	2013-02-01 12:00:00	Insurance
6	Amit	Kumar	75000	2013-01-01 12:00:00	Services

Table 2: Incentive

```
select * from Incentive ;
```



Employee_ref_id	Incentive_date	Incentive_amount
1	2013-02-01 12:00:00	5000
2	2013-02-01 12:00:00	3000
1	2013-01-01 12:00:00	4500
2	2013-01-01 12:00:00	3500
3	2013-02-01 12:00:00	4000

## 6-Get first name ,last name from Employees table

```
Select First_name,Last_name from Employees;
```

	First_name	Last_name
▶	John	Abraham
	Michael	Clarke
	Virat	Kohli
	Anil	Kumble
	Bryan	Lara
	Amit	Kumar

### 7-Get First\_Name from Employees table in upper case

Select upper(First\_name) from Employees;

	upper(First_name)
▶	JOHN
	MICHAEL
	VIRAT
	ANIL
	BRYAN
	AMIT

### 8-Get First\_Name from Employees table in lower case

Select lower(First\_name) from employee;

	lower(First_name)
▶	john
	michael
	virat
	anil
	bryan
	amit

### 9-Get unique DEPARTMENT from employee table

Select distinct department from Employees;



	department
▶	Banking
	Insurance
	Services

**10- Get FIRST\_NAME from Employees table after removing white spaces from right side**

```
select rtrim(First_name) from Employees;
```

**11-Get FIRST\_NAME from Employees table after removing white spaces from Left side**

```
select ltrim(First_name) from Employees;
```

**12-Get first 3 characters of FIRST\_NAME from Employees**

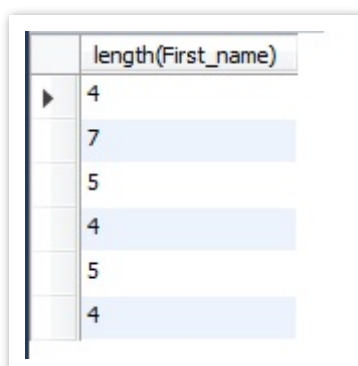
```
select substring(First_name,1,3) from Employees;
```



	substring(First_name,1,3)
▶	Joh
	Mic
	Vir
	Ani
	Bry
	Ami

**13-Get length of FIRST\_NAME from Employees table**

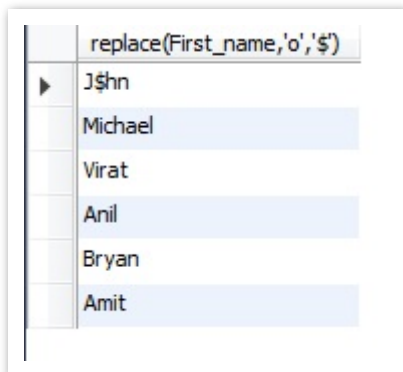
```
select length(First_name) from Employees;
```



	length(First_name)
▶	4
	7
	5
	4
	5
	4

**14-Get First\_Name from Employees table after replacing 'o' with '\$'**

```
select replace(First_name,'o','$') from Employees;
```

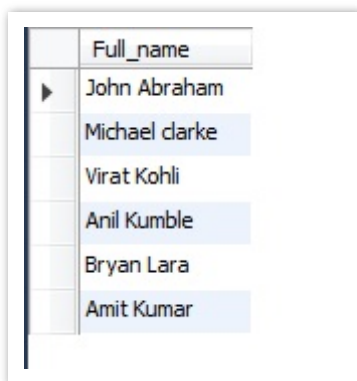


A screenshot of a MySQL query result window. The title bar of the window is 'replace(First\_name,'o','\$')'. The result is displayed as a table with one column and six rows. The first row is highlighted with a mouse cursor. The data in the rows is: J\$hn, Michael, Virat, Anil, Bryan, and Amit.

replace(First_name,'o','\$')
J\$hn
Michael
Virat
Anil
Bryan
Amit

**15-Get First\_Name and Last\_Name as single column from Employees table separated by space.**

```
select concat(first_name," ",last_name) as Full_name from Employees ;
```



A screenshot of a MySQL query result window. The title bar of the window is 'Full\_name'. The result is displayed as a table with one column and six rows. The first row is highlighted with a mouse cursor. The data in the rows is: John Abraham, Michael clarke, Virat Kohli, Anil Kumble, Bryan Lara, and Amit Kumar.

Full_name
John Abraham
Michael clarke
Virat Kohli
Anil Kumble
Bryan Lara
Amit Kumar

**16-Get FIRST\_NAME ,Joining year , Joining Month and Joining Date from Employees table**

```
select First_name,year(Joining_date),month(joining_date),day(joining_date) from Employees ;
```

	First_name	year(Joining_date)	month(joining_date)	day(joining_date)
▶	John	2013	1	1
	Michael	2013	1	1
	Virat	2013	2	1
	Anil	2013	2	1
	Bryan	2013	2	1
	Amit	2013	1	1

### 17-Get all employee details from the Employees table order by First\_Name Ascending

```
select first_name from Employees order by First_name asc;
```

	first_name
▶	Amit
	Anil
	Bryan
	John
	Michael
	Virat

### 18-Get all employee details from the Employees table order by First\_Name Descending

```
select first_name from Employees order by first_name desc;
```

	first_name
▶	Virat
	Michael
	John
	Bryan
	Anil
	Amit

### 19-Get Employees details from employee table whose Employees name are “John” and “Roy”

```
select * from Employees where first_name not in ("john","roy");
```

	Employee_id	First_name	Last_name	Salary	Joining_date	Department
▶	1	John	Abraham	100000	2013-01-01 12:00:00	Banking

## 20-Get employee details from Employees table whose first name starts with 'b'

```
select * from Employees where First_name like "b%";
```

	Employee_id	First_name	Last_name	Salary	Joining_date	Department
▶	5	Bryan	Lara	65000	2013-02-01 12:00:00	Insurance

## 21-Get employee details from Employees table whose first name contains 'r'

```
select * from Employees where first_name like "%r%";
```

	Employee_id	First_name	Last_name	Salary	Joining_date	Department
▶	3	Virat	Kohli	70000	2013-02-01 12:00:00	Banking
	5	Bryan	Lara	65000	2013-02-01 12:00:00	Insurance

## 22-Get employee details from Employees table whose Salary greater than 70000

```
select * from Employees where salary>70000;
```

	Employee_id	First_name	Last_name	Salary	Joining_date	Department
▶	1	John	Abraham	100000	2013-01-01 12:00:00	Banking
	2	Michael	Clarke	80000	2013-01-01 12:00:00	Insurance
	6	Amit	Kumar	75000	2013-01-01 12:00:00	Services

## 23-Get employee details from Employees table whose Salary between 70000 and 90000

```
select * from Employees where salary between 70000 and 90000;
```

	Employee_id	First_name	Last_name	Salary	Joining_date	Department
▶	2	Michael	clarke	80000	2013-01-01 12:00:00	Insurance
	3	Virat	Kohli	70000	2013-02-01 12:00:00	Banking
	6	Amit	Kumar	75000	2013-01-01 12:00:00	Services

## 24-Get employee details from Employees table whose name is 'John' and 'Michael'

```
select * from Employees where first_name in("john","michael");
```

	Employee_id	First_name	Last_name	Salary	Joining_date	Department
▶	1	John	Abraham	100000	2013-01-01 12:00:00	Banking
	2	Michael	clarke	80000	2013-01-01 12:00:00	Insurance

## 25-Get employee details from Employees table whose joining year is “2013”

```
select * from Employees where year(Joining_date)="2013";
```

	Employee_id	First_name	Last_name	Salary	Joining_date	Department
▶	1	John	Abraham	100000	2013-01-01 12:00:00	Banking
	2	Michael	clarke	80000	2013-01-01 12:00:00	Insurance
	3	Virat	Kohli	70000	2013-02-01 12:00:00	Banking
	4	Anil	Kumble	60000	2013-02-01 12:00:00	Insurance
	5	Bryan	Lara	65000	2013-02-01 12:00:00	Insurance
	6	Amit	Kumar	75000	2013-01-01 12:00:00	Services

## 26-Get employee details from Employees table whose joining month is “January”

```
select * from Employees where month(joining_date)="1";
```

	Employee_id	First_name	Last_name	Salary	Joining_date	Department
▶	1	John	Abraham	100000	2013-01-01 12:00:00	Banking
	2	Michael	clarke	80000	2013-01-01 12:00:00	Insurance
	6	Amit	Kumar	75000	2013-01-01 12:00:00	Services



## 27-Get difference between JOINING\_DATE and INCENTIVE\_DATE from Employees and incentives table

```
select first_name,JOINING_DATE - INCENTIVE_DATE from Employees a inner join  
incentive b on a.employee_id=b.Employee_ref_id;
```

	first_name	JOINING_DATE - INCENTIVE_DATE
▶	John	-100000000
	John	0
	Michael	-100000000
	Michael	0
	Virat	0

## 28-Get department,total salary with respect to a department from Employees table

```
select department ,sum(salary) as total_salary from Employees group by department;
```

	department	total_salary
▶	Banking	170000
	Insurance	205000
	Services	75000