

**Engineering Mathematics** 

Discrete Mathematics

Practice

Digital Logic and Design Computer Organization and Architecture

# **SQL Interview Questions | Set 1**



Read

**Discuss** 

Courses

Que-1: Difference between blocking and deadlocking.

#### • Blocking:

Blocking occurs is a transaction tries to acquire an incompatible lock on a resource that another transaction has already locked. The blocked transaction remain blocked until the blocking transaction releases the lock.

## • Deadlocking:

Deadlocking occurs when two or more transactions have a resource locked, and each transaction requests a lock on the resource that another transaction has already locked. Neither of the transactions here can more forward, as each one is waiting for the other to release the lock.

Que-2: Delete duplicate data from table only first data remains constant.

#### Managers -

AD

ld	Name	Salary
1	Harpreet	20000
2	Ravi	30000
3	Vinay	10000
4	Ravi	30000

5	Harpreet	20000
6	Vinay	10000
7	Rajeev	40000
8	Vinay	10000
9	Ravi	30000
10	Sanjay	50000

DELETE M1

From managers M1, managers M2
Where M2.Name = M1.Name AND M1.Id>M2.Id;

## Output -

ld	Name	Salary
1	Harpreet	20000
2	Ravi	30000
3	Vinay	10000
7	Rajeev	40000
10	Sanjay	50000

Que-3: Find the Name of Employees.

Finding the name of Employees where First Name, Second Name and Last Name is given in table. Some Name is missing such as First Name, Second Name and may be Last Name. Here we will use COALESCE() function which will return first Non Null values.

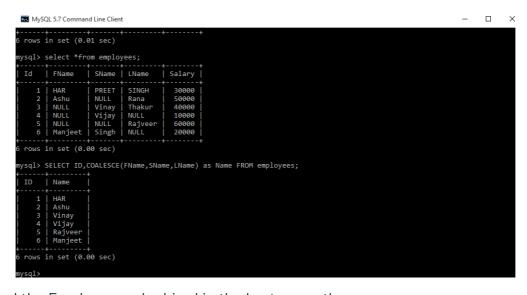
# Employees -

ID	FName	SName	LName	Salary
1	Har	preet	Singh	30000

ΙĐ	FName Ashu	SName	<b>LName</b> Rana	Salary
3	NULL	Vinay	Thakur	40000
4	NULL	Vinay	NULL	10000
5	NULL	NULL	Rajveer	60000
6	Manjeet	Singh	NULL	60000

SELECT ID, COALESCE(FName, SName, LName) as Name FROM employees;

## Output -



**Que-4:** Find the Employees who hired in the Last n months.

Finding the Employees who have been hire in the last n months. Here we get desire output by using TIMESTAMPDIFF() mysql function.

## Employees -

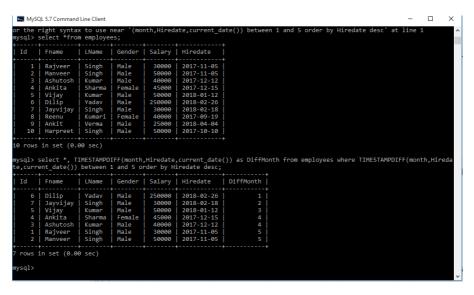
ID	FName	LName	Gender	Salary	Hiredate
1	Rajveer	Singh	Male	30000	2017/11/05
2	Manveer	Singh	Male	50000	2017/11/05
3	Ashutosh	Kumar	Male	40000	2017/12/12

ID	FName	LName	Gender	Salary	Hiredate
4	Ankita	Sharma	Female	45000	2017/12/15
5	Vijay	Kumar	Male	50000	2018/01/12
6	Dilip	Yadav	Male	25000	2018/02/26
7	Jayvijay	Singh	Male	30000	2018/02/18
8	Reenu	Kumari	Female	40000	2017/09/19
9	Ankit	Verma	Male	25000	2018/04/04
10	Harpreet	Singh	Male	50000	2017/10/10

```
Select *, TIMESTAMPDIFF (month, Hiredate, current_date()) as DiffMonth
From employees
Where TIMESTAMPDIFF (month, Hiredate, current_date())
Between 1 and 5 Order by Hiredate desc;
```

**Note** – Here in query 1 and 5 are indicates 1 to n months.which show the Employees who have hired last 1 to 5 months. In this query DiffMonth is a extra column for our understanding which show the Nth months.

## Output -



Que-5: Find the Employees who hired in the Last n days.

Finding the Employees who have been hire in the last n days. Here we get desire output by using DATEDIFF() mysql function.

# Employees -

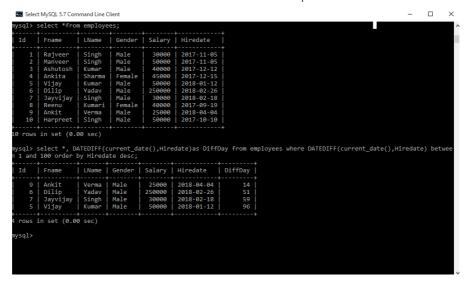
ID	FName	LName	Gender	Salary	Hiredate
1	Rajveer	Singh	Male	30000	2017/11/05
2	Manveer	Singh	Male	50000	2017/11/05
3	Ashutosh	Kumar	Male	40000	2017/12/12
4	Ankita	Sharma	Female	45000	2017/12/15
5	Vijay	Kumar	Male	50000	2018/01/12
6	Dilip	Yadav	Male	25000	2018/02/26
7	Jayvijay	Singh	Male	30000	2018/02/18
8	Reenu	Kumari	Female	40000	2017/09/19
9	Ankit	Verma	Male	25000	2018/04/04
10	Harpreet	Singh	Male	50000	2017/10/10

## Query -

Select \*, DATEDIFF (current\_date(), Hiredate) as DiffDay
From employees
Where DATEDIFF (current\_date(), Hiredate) between 1 and 100 order by Hiredate
desc;

**Note** – Here in query 1 and 100 are indicates 1 to n days.which show the Employees who have hired last 1 to 100 days. In this query DiffDay is a extra column for our understanding which show the Nth days.

#### Output -



Que-6: Find the Employees who hired in the Last n years.

Finding the Employees who have been hire in the last n years. Here we get desire output by using TIMESTAMPDIFF() mysql function.

# Employees -

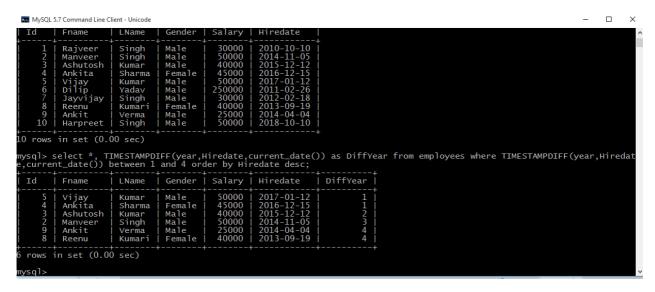
ID	FName	LName	Gender	Salary	Hiredate
1	Rajveer	Singh	Male	30000	2010/11/05
2	Manveer	Singh	Male	50000	2017/11/05
3	Ashutosh	Kumar	Male	40000	2015/12/12
4	Ankita	Sharma	Female	45000	2016/12/15
5	Vijay	Kumar	Male	50000	2017/01/12
6	Dilip	Yadav	Male	25000	2011/02/26
7	Jayvijay	Singh	Male	30000	2012/02/18
8	Reenu	Kumari	Female	40000	2013/09/19
9	Ankit	Verma	Male	25000	2017/04/04
10	Harpreet	Singh	Male	50000	2017/10/10

# Query -

Select \*, TIMESTAMPDIFF (year, Hiredate, current\_date()) as DiffYear
From employees
Where TIMESTAMPDIFF (year, Hiredate, current\_date()) between 1 and 4 order by
Hiredate desc;

**Note** – Here in query 1 and 4 are indicates 1 to n years.which show the Employees who have hired last 1 to 4 years. In this query DiffYear is a extra column for our understanding which show the Nth years.

#### Output -



Que-7: Select all names that start with a given letter.

Here we get desire output by using three different guery.

## Employees -

ID	FName	LName	Gender	Salary	Hiredate
1	Rajveer	Singh	Male	30000	2010/11/05
2	Manveer	Singh	Male	50000	2017/11/05
3	Ashutosh	Kumar	Male	40000	2015/12/12
4	Ankita	Sharma	Female	45000	2016/12/15
5	Vijay	Kumar	Male	50000	2017/01/12
6	Dilip	Yadav	Male	25000	2011/02/26
7	Jayvijay	Singh	Male	30000	2012/02/18

ID	FName	LName	Gender	Salary	Hiredate
8	Reenu	Kumari	Female	40000	2013/09/19
9	Ankit	Verma	Male	25000	2017/04/04
10	Harpreet	Singh	Male	50000	2017/10/10

```
Select *
From employees
Where Fname like 'A%';

Select *
From employees
Where left(FName, 1)='A';

Select *
From employees
Where substring(FName, 1, 1)='A';
```

**Note** – Here every query will give same output and the list of Employees who's FName start with letter A.

Refer for - SQL Interview Questions | Set 2

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# Similar Reads

- 1. Difference between Structured Query Language (SQL) and Transact-SQL (T-SQL)
- 2. Configure SQL Jobs in SQL Server using T-SQL
- 3. SQL vs NO SQL vs NEW SQL
- 4. SQL Interview Questions | Set 2
- 5. SQL Interview Questions
- 6. Advanced SQL Interview Questions