**Practice SQL Questions**

# Before working on the practice questions, pls write following queries on your MySQL Workbench to create Database and Tables on which you can run the practice questions:

CREATE DATABASE ORG;

SHOW DATABASES;

USE ORG;

CREATE TABLE Worker (

WORKER\_ID INT NOT NULL PRIMARY KEY AUTO\_INCREMENT,

FIRST\_NAME CHAR(25),

LAST\_NAME CHAR(25),

SALARY INT(15),

JOINING\_DATE DATETIME,

DEPARTMENT CHAR(25)

);

INSERT INTO Worker

(WORKER\_ID, FIRST\_NAME, LAST\_NAME, SALARY, JOINING\_DATE, DEPARTMENT) VALUES

(001, 'Monika', 'Arora', 100000, '14-02-20 09.00.00', 'HR'),

(002, 'Niharika', 'Verma', 80000, '14-06-11 09.00.00', 'Admin'),

(003, 'Vishal', 'Singhal', 300000, '14-02-20 09.00.00', 'HR'),

(004, 'Amitabh', 'Singh', 500000, '14-02-20 09.00.00', 'Admin'),

(005, 'Vivek', 'Bhati', 500000, '14-06-11 09.00.00', 'Admin'),

(006, 'Vipul', 'Diwan', 200000, '14-06-11 09.00.00', 'Account'),

(007, 'Satish', 'Kumar', 75000, '14-01-20 09.00.00', 'Account'),

(008, 'Geetika', 'Chauhan', 90000, '14-04-11 09.00.00', 'Admin');

CREATE TABLE Bonus (

WORKER\_REF\_ID INT,

BONUS\_AMOUNT INT(10),

BONUS\_DATE DATETIME,

FOREIGN KEY (WORKER\_REF\_ID)

REFERENCES Worker(WORKER\_ID)

ON DELETE CASCADE

);

INSERT INTO Bonus

(WORKER\_REF\_ID, BONUS\_AMOUNT, BONUS\_DATE) VALUES

(001, 5000, '16-02-20'),

(002, 3000, '16-06-11'),

(003, 4000, '16-02-20'),

(001, 4500, '16-02-20'),

(002, 3500, '16-06-11');

CREATE TABLE Title (

WORKER\_REF\_ID INT,

WORKER\_TITLE CHAR(25),

AFFECTED\_FROM DATETIME,

FOREIGN KEY (WORKER\_REF\_ID)

REFERENCES Worker(WORKER\_ID)

ON DELETE CASCADE

);

INSERT INTO Title

(WORKER\_REF\_ID, WORKER\_TITLE, AFFECTED\_FROM) VALUES

(001, 'Manager', '2016-02-20 00:00:00'),

(002, 'Executive', '2016-06-11 00:00:00'),

(008, 'Executive', '2016-06-11 00:00:00'),

(005, 'Manager', '2016-06-11 00:00:00'),

(004, 'Asst. Manager', '2016-06-11 00:00:00'),

(007, 'Executive', '2016-06-11 00:00:00'),

(006, 'Lead', '2016-06-11 00:00:00'),

(003, 'Lead', '2016-06-11 00:00:00');

1. Write an SQL query to fetch unique values of DEPARTMENT from Worker table
2. Write an SQL query to fetch DEPARTMENT wise max salaried employee from Worker table
3. Use concat to club first name and last name as FULL\_Name in worker table printed in upper case (HINT: use UPPER)
4. Write an SQL query to print all Worker details from the Worker table order by FIRST\_NAME Ascending and DEPARTMENT
5. Descending
6. Write an SQL query to print details for Workers with the first name NOT as “Vipul” and “Satish” from Worker table
7. Write an SQL query to print details of the Workers who have joined in Feb’2014 (HINT: use year(joining\_date) & month(joining\_date))
8. Write an SQL query to fetch worker names with salaries >= 50000 and <= 100000
9. Write an SQL query to fetch the no. of workers for each department in the descending order
10. Write an SQL query to fetch details of worker in the last row
11. Write an SQL query to print details of the Workers who are also Managers (J)

#### Write an SQL query to fetch duplicate records having matching data in some fields of a table.

#### Write an SQL query to show only odd rows from a table.

#### Write an SQL query to show the top n (say 10) records of a table.

#### Write an SQL query to fetch the list of employees with the same salary.

#### Write an SQL query to fetch the first 50% records from a table.

#### Write an SQL query to show the last record from a table.

#### Write an SQL query to print the name of employees having the highest salary in each department.

#### Write an SQL query to fetch name of top three max distinct salaries from a table

#### Write an SQL query to determine the nth highest salary without using TOP or limit method

#### Write an SQL query to determine the nth (say n=5) highest salary from a table.

1. Write an SQL query to determine the nth (say n=5) highest salary from a table.

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