**Worker Data Management**

**Problem Statement**

Worker management application to help clients to maintain data securely and manipulate as per their requirements and using JDBC we can connect with databases and users can manipulate the data and validate records as per constraints.

## **Hardware and Software Requirement**

1. Hardware Requirement:
   1. Developer PC with 8GB RAM
2. Software Requirement
   1. MySQL
   2. JAVA
   3. JDBC / JPA with Hibernate.

**Core Module includes:**

* Java is used to connect databases and trigger queries.
* MySQL for creating tables and storing the data

Develop the Tables using the following steps:

**Worker - Table :**

WORKER\_ID FIRST\_NAME LAST\_NAME SALARY JOINING\_DATE DEPARTMENT

001 Monika Arora 100000 2014-02-20 09:00:00 HR

002 Niharika Verma 80000 2014-06-11 09:00:00 Admin

003 Vishal Singhal 300000 2014-02-20 09:00:00 HR

004 Amitabh Singh 500000 2014-02-20 09:00:00 Admin

005 Vivek Bhati 500000 2014-06-11 09:00:00 Admin

006 Vipul Diwan 200000 2014-06-11 09:00:00 Account

007 Satish Kumar 75000 2014-01-20 09:00:00 Account

008 Geetika Chauhan 90000 2014-04-11 09:00:00 Admin

**Bonus Table :**

WORKER\_REF\_ID BONUS\_DATE BONUS\_AMOUNT

1 2016-02-20 00:00:00 5000

2 2016-06-11 00:00:00 3000

3 2016-02-20 00:00:00 4000

1 2016-02-20 00:00:00 4500

2 2016-06-11 00:00:00 3500

**Worker Table:**

WORKER\_REF\_ID WORKER\_TITLE AFFECTED\_FROM

1 Manager 2016-02-20 00:00:00

2 Executive 2016-06-11 00:00:00

8 Executive 2016-06-11 00:00:00

5 Manager 2016-06-11 00:00:00

4 Asst. Manager 2016-06-11 00:00:00

7 Executive 2016-06-11 00:00:00

6 Lead 2016-06-11 00:00:00

3 Lead 2016-06-11 00:00:00

To prepare the sample data, you can run the following queries in your database query executor or on the SQL command line. We’ve tested them with MySQL Server and MySQL Workbench..

**Q1**. Using JDBC, execute a SQL query to fetch “**FIRST\_NAME, LAST\_NAME**” from the Worker table using the alias name as “**FULL\_NAME”** results in ``UPPER CASE.

**Note : Print Results in console and Take screenshot and submit.**

**Q2.**  Using JDBC, Execute a SQL query to fetch unique values of DEPARTMENT from Worker-Table.

**Note : Print Results in console and Take screenshot and submit.**

**Q3.** Using JDBC, Execute a SQL query to find the position of the alphabet (‘a’) in the first name column ‘Amitabh’ from the Worker-Table.

**Note : Print Results in console and Take screenshot and submit.**