

SQL ASSIGNMENT - 01

```
In [1]: import mysql.connector as connection

mydb = connection.connect(host = 'localhost',user = 'root',passwd = 'mysql',use_pure =True)
cur = mydb.cursor()

cur.execute('CREATE DATABASE sqlassignment')
cur.execute('USE sqlassignment')
cur.execute('CREATE TABLE Worker (ID INT PRIMARY KEY,FIRST_NAME CHAR(15),LAST_NAME CHAR(15),SALARY INT(15),JOINING_DATE DATE,DEPA

In [2]: cur.execute("INSERT INTO Worker VALUES(1, 'Monika', 'Arora', 100000,'14-2-20','HR')")
cur.execute("INSERT INTO Worker VALUES(2, 'Niharika', 'Verma', 80000,'14-06-11', 'Admin')")
cur.execute("INSERT INTO Worker VALUES(3, 'Vishal', 'Singhal', 300000, '14-02-20', 'HR')")
cur.execute("INSERT INTO Worker VALUES(4, 'Amitabh', 'Singh', 500000, '14-02-20', 'Admin')")
cur.execute("INSERT INTO Worker VALUES(5, 'Vivek', 'Bhati', 500000, '14-06-11', 'Admin')")
cur.execute("INSERT INTO Worker VALUES(6, 'Vipul', 'Diwan', 200000, '14-06-11', 'Account')")
cur.execute("INSERT INTO Worker VALUES(7, 'Satish', 'Kumar', 75000, '14-01-20', 'Account')")
cur.execute("INSERT INTO Worker VALUES(8, 'Geetika', 'Chauhan', 90000, '14-04-11', 'Admin')")

In [3]: mydb.commit()
```

Q-1. Write an SQL query to fetch “FIRST_NAME” from Worker table using the alias name as <WORKER_NAME>.

```
In [4]: cur.execute("select FIRST_NAME as WORKER_NAME from Worker")

In [5]: cur.fetchall()

Out[5]: [('Monika',),
        ('Niharika',),
        ('Vishal',),
        ('Amitabh',),
        ('Vivek',),
        ('Vipul',),
        ('Satish',),
        ('Geetika',)]
```

Q-2. Write an SQL query to fetch unique values of DEPARTMENT from Worker table.

```
In [6]: cur.execute("select distinct DEPARTMENT from Worker")

In [7]: cur.fetchall()

Out[7]: [('HR',), ('Admin',), ('Account',)]
```

Q-3. Write an SQL query to show the last 5 record from a table.

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In [10]: cur.execute("select * from Worker where ID > (select count(*) from Worker)-5")
```

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In [11]: cur.fetchall()
```

```
Out[11]: [(4, 'Amitabh', 'Singh', 500000, datetime.date(2014, 2, 20), 'Admin'),  
(5, 'Vivek', 'Bhati', 500000, datetime.date(2014, 6, 11), 'Admin'),  
(6, 'Vipul', 'Diwan', 200000, datetime.date(2014, 6, 11), 'Account'),  
(7, 'Satish', 'Kumar', 75000, datetime.date(2014, 1, 20), 'Account'),  
(8, 'Geetika', 'Chauhan', 90000, datetime.date(2014, 4, 11), 'Admin')]
```