#### Analyse the following tables & answer the queries

* **Sample Table Worker**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **WORKER\_ID** | **FIRST\_NAME** | **LAST\_NAME** | **SALARY** | **JOINING\_DATE** | **DEPARTMENT** |
| 001 | Monika | Arora | 100000 | 2019-06-08 | HR |
| 002 | Niharika | Verma | 80000 | 2019-06-02 | Admin |
| 003 | Vishal | Singhal | 300000 | 2019-06-03 | HR |
| 004 | Amithab | Singh | 500000 | 2019-06-04 | Admin |
| 005 | Vivek | Bhati | 500000 | 2019-06-05 | Admin |
| 006 | Vipul | Diwan | 200000 | 2019-06-05 | Account |
| 007 | Satish | Kumar | 75000 | 2019-06-14 | Account |
| 008 | Deepika | Chauhan | 90000 | 2019-06-21 | Admin |

* **Sample Table - Bonus**

|  |  |  |
| --- | --- | --- |
| **WORKER\_REF\_ID** | **BONUS\_DATE** | **BONUS\_AMOUNT** |
| 1 | 2020-06-02 | 5000 |
| 2 | 2020-06-03 | 3000 |
| 3 | 2020-06-04 | 4000 |
| 1 | 2020-06-05 | 4500 |
| 2 | 2020-06-05 | 3500 |

* **Sample Table - Title**

|  |  |  |
| --- | --- | --- |
| **WORKER\_REF\_ID** | **WORKER\_TITLE** | **AFFECTED FROM** |
| 1 | Manager | 2019-06-08 |
| 2 | Executive | 2019-06-02 |
| 8 | Executive | 2019-06-03 |
| 5 | Manager | 2019-06-08 |
| 4 | Asst. Manager | 2019-06-02 |
| 7 | Executive | 2019-06-03 |

#### Write an SQL query to fetch “FIRST\_NAME” from the Worker table using the alias name as <WORKER\_NAME>.

#### Write an SQL query to fetch “FIRST\_NAME” from the Worker table in upper case.

#### Write an SQL query to fetch unique values of DEPARTMENT from Worker table.

#### Write an SQL query to find the position of the alphabet (‘a’) in the first name column ‘Amitabh’ from the Worker table.

Notes:

* The INSTR method is case-sensitive by default.
* Using a Binary operator will make INSTR work as the case-sensitive function.

#### Write an SQL query to print the FIRST\_NAME from the Worker table after removing white spaces from the right side.

#### Write an SQL query to print the DEPARTMENT from the Worker table after removing white spaces from the left side.

#### Write an SQL query to print the FIRST\_NAME from the Worker table after replacing ‘a’ with ‘A’.

1. Write an SQL query to print the FIRST\_NAME and LAST\_NAME from the Worker table into a single column COMPLETE\_NAME. A space char should separate them.

#### Write an SQL query to print all Worker details from the Worker table order by FIRST\_NAME Ascending.

#### Write an SQL query to print all Worker details from the Worker table order by FIRST\_NAME Ascending and DEPARTMENT Descending.

#### Write an SQL query to print details of the Workers whose FIRST\_NAME contains ‘a’.

#### Write an SQL query to fetch worker names with salaries >= 50000 and <= 100000.

#### 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.

1. Swapping the Values of first name and last name Columns in a worker table

**ANSWERS**

SELECT \*

FROM worker;

worker\_id | first\_name | last\_name | salary | joining\_date | department

-----------+------------+-----------+--------+--------------+------------

1 | Monika | Arora | 100000 | 2019-06-08 | HR

2 | Niharika | Verma | 80000 | 2019-06-02 | Admin

3 | Vishal | Singhal | 300000 | 2019-06-03 | HR

4 | Amithab | Singh | 500000 | 2019-06-04 | Admin

5 | Vivek | Bhati | 500000 | 2019-06-05 | Admin

6 | Vipul | Diwan | 200000 | 2019-06-05 | Account

7 | Satish | Kumar | 75000 | 2019-06-14 | Account

8 | Deepika | Chauhan | 90000 | 2019-06-21 | Admin

(8 rows)

**A)**

SELECT first\_name AS WORKER\_NAME

assignment1-# FROM WORKER;

worker\_name

-------------

Monika

Niharika

Vishal

Amithab

Vivek

Vipul

Satish

Deepika

(8 rows)

**B)**

SELECT UPPER(first\_name)

FROM worker;

upper

----------

MONIKA

NIHARIKA

VISHAL

AMITHAB

VIVEK

VIPUL

SATISH

DEEPIKA

(8 rows)

**C)**

SELECT DISTINCT department

FROM worker;

department

------------

Admin

Account

HR

(3 rows)

**D)**

SELECT POSITION('a' IN first\_name) FROM worker WHERE first\_name='Amithab';

position

----------

6

(1 row)

**E)**

SELECT RTRIM(FIRST\_NAME) FROM Worker;

rtrim

----------

Monika

Niharika

Vishal

Amithab

Vivek

Vipul

Satish

Deepika

(8 rows)

**F)**

SELECT LTRIM(department) FROM Worker;

ltrim

---------

HR

Admin

HR

Admin

Admin

Account

Account

Admin

(8 rows)

**G)**

SELECT REPLACE(first\_name, 'a', 'A') FROM Worker;

replace

----------

MonikA

NihArikA

VishAl

AmithAb

Vivek

Vipul

SAtish

DeepikA

(8 rows)

**H)**

SELECT CONCAT("first\_name",' ',"last\_name") AS complete\_name

FROM worker;

complete\_name

-----------------

Monika Arora

Niharika Verma

Vishal Singhal

Amithab Singh

Vivek Bhati

Vipul Diwan

Satish Kumar

Deepika Chauhan

(8 rows)

**I)**

SELECT \*

FROM worker

ORDER BY first\_name;

worker\_id | first\_name | last\_name | salary | joining\_date | department

-----------+------------+-----------+--------+--------------+------------

4 | Amithab | Singh | 500000 | 2019-06-04 | Admin

8 | Deepika | Chauhan | 90000 | 2019-06-21 | Admin

1 | Monika | Arora | 100000 | 2019-06-08 | HR

2 | Niharika | Verma | 80000 | 2019-06-02 | Admin

7 | Satish | Kumar | 75000 | 2019-06-14 | Account

6 | Vipul | Diwan | 200000 | 2019-06-05 | Account

3 | Vishal | Singhal | 300000 | 2019-06-03 | HR

5 | Vivek | Bhati | 500000 | 2019-06-05 | Admin

(8 rows)

**J)**

SELECT \* FROM Worker ORDER BY FIRST\_NAME ASC, DEPARTMENT DESC;

worker\_id | first\_name | last\_name | salary | joining\_date | department

-----------+------------+-----------+--------+--------------+------------

4 | Amithab | Singh | 500000 | 2019-06-04 | Admin

8 | Deepika | Chauhan | 90000 | 2019-06-21 | Admin

1 | Monika | Arora | 100000 | 2019-06-08 | HR

2 | Niharika | Verma | 80000 | 2019-06-02 | Admin

7 | Satish | Kumar | 75000 | 2019-06-14 | Account

6 | Vipul | Diwan | 200000 | 2019-06-05 | Account

3 | Vishal | Singhal | 300000 | 2019-06-03 | HR

5 | Vivek | Bhati | 500000 | 2019-06-05 | Admin

(8 rows)

**K)**

SELECT \* FROM Worker WHERE FIRST\_NAME LIKE '%a%';

worker\_id | first\_name | last\_name | salary | joining\_date | department

-----------+------------+-----------+--------+--------------+------------

1 | Monika | Arora | 100000 | 2019-06-08 | HR

2 | Niharika | Verma | 80000 | 2019-06-02 | Admin

3 | Vishal | Singhal | 300000 | 2019-06-03 | HR

4 | Amithab | Singh | 500000 | 2019-06-04 | Admin

7 | Satish | Kumar | 75000 | 2019-06-14 | Account

8 | Deepika | Chauhan | 90000 | 2019-06-21 | Admin

(6 rows)

**L)**

SELECT FIRST\_NAME, LAST\_NAME FROM Worker WHERE salary BETWEEN 50000 AND 100000;

first\_name | last\_name

------------+-----------

Monika | Arora

Niharika | Verma

Satish | Kumar

Deepika | Chauhan

(4 rows)

**M)**

SELECT \*

FROM worker

ORDER BY worker\_id

LIMIT (SELECT COUNT(\*)/2 FROM worker);

worker\_id | first\_name | last\_name | salary | joining\_date | department

-----------+------------+-----------+--------+--------------+------------

1 | Monika | Arora | 100000 | 2019-06-08 | HR

2 | Niharika | Verma | 80000 | 2019-06-02 | Admin

3 | Vishal | Singhal | 300000 | 2019-06-03 | HR

4 | Amithab | Singh | 500000 | 2019-06-04 | Admin

(4 rows)

**N)**

SELECT \*

FROM worker

ORDER BY worker\_id DESC

LIMIT 1;

worker\_id | first\_name | last\_name | salary | joining\_date | department

-----------+------------+-----------+--------+--------------+------------

8 | Deepika | Chauhan | 90000 | 2019-06-21 | Admin

(1 row)

**O)**

UPDATE worker

SET first\_name=last\_name,last\_name=first\_name;

UPDATE 8

SELECT worker\_id,first\_name,last\_name

FROM worker;

worker\_id | first\_name | last\_name

-----------+------------+-----------

1 | Arora | Monika

2 | Verma | Niharika

3 | Singhal | Vishal

4 | Singh | Amithab

5 | Bhati | Vivek

6 | Diwan | Vipul

7 | Kumar | Satish

8 | Chauhan | Deepika

(8 rows)