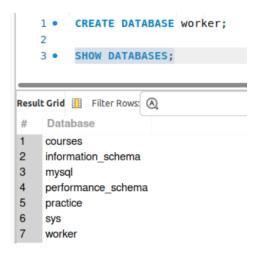
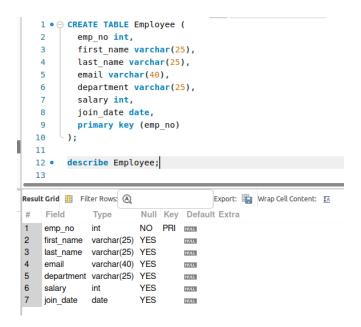
# **SQL Assignment Solutions**

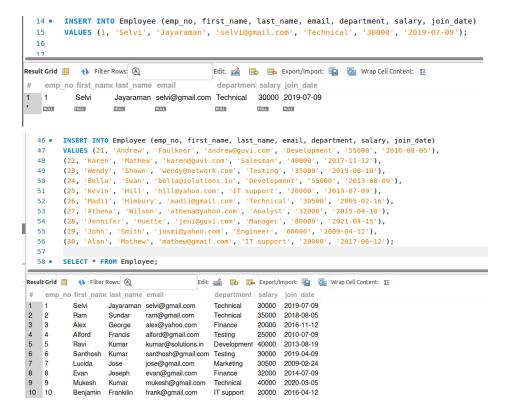
### **Worker Database created**



## Creating Employee Table



#### Populating 30 records



#### Task-1

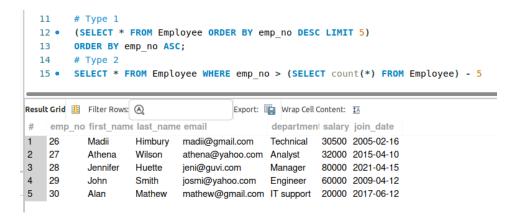
1. Write an SQL query to fetch "FIRST\_NAME" from the Worker table using the alias name as <WORKER NAME>



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



3. Write an SQL query to show the last 5 records from a table.



#### Task-2

1. Write an SQL query to print the first three characters of FIRST\_NAME from Worker



2. Write an SQL query to find the position of the alphabet ('a') in the first name



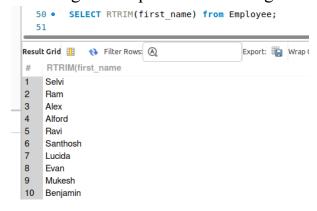
3. Write an SQL query to print the name of employees who have the highest salary in each department.

```
39 • SELECT first name, department, salary
  40
         FROM Employee

    ○ WHERE (department, salary) IN (
  42
              SELECT department, MAX(salary)
              FROM Employee
  43
  44
              GROUP BY department);
  45
Result Grid
             N Filter Rows: (A)
                                              Export: 📳 Wrap
    first_name
                    department salary
1
    Lucida
                    Marketing
                                80500
    Mukesh
                    Technical
                                85000
    Benjamin
                    IT support
                                60000
    Sam
                    Development 95000
5
    Alfred
                    Testing
                                52000
    Paul
                                90000
                    Finance
    Kevin
                    Salesman
                                72500
    Athena
                                92000
                    Analyst
                    Manager
9
    Jennifer
                                80000
                                99000
10 John
                    Engineer
```

### Task-3

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



2. Write an SQL query that fetches the unique values of DEPARTMENT from the Worker table and prints its length.

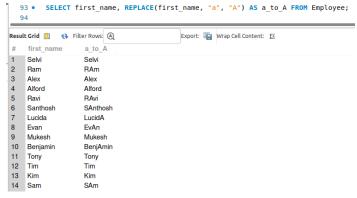


3. Write an SQL query to fetch n max salaries from a table.

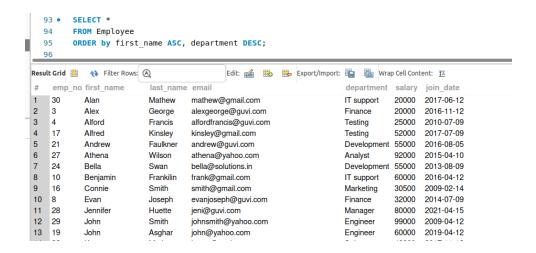


### Task-4

1. Write an SQL query to print the FIRST\_NAME from the Worker table after replacing 'a' with 'A'.



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

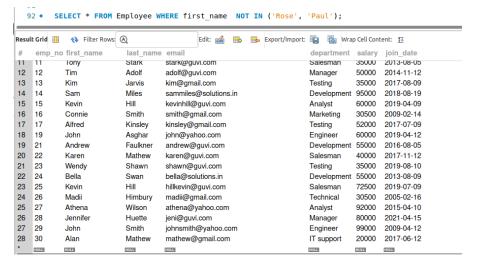


3. Write an SQL query to fetch the names of workers who earn the highest salary.



#### Task-5

1. Write an SQL query to print details of workers excluding first names, "Rose" and "Paul" from the Worker table.



2. Write an SQL query to print details of the Workers whose FIRST\_NAME ends with 'h' and contains six alphabets.



3. Write a query to validate Email of Employee (email should have first name last name and guvi.com example (first name=Kamal last name= raja and the mail id should be <a href="mailto:kamalraja@guvi.com">kamalraja@guvi.com</a>).



Note: Added some duplicate rows in the existing table

#### Task-6

1. Write an SQL query to print details of the Workers who have joined in March '2021.

2. Write an SQL query to fetch duplicates that have matching data in some fields of a table.

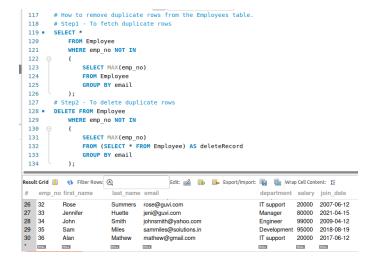
```
108 • SELECT a.*
          FROM Employee a
  110

⇒ JOIN (SELECT email, COUNT(*) as frequency

  111
          FROM Employee
  113
         HAVING count(*) > 1) b
          ON a.email = b.email
  114
  115
          ORDER BY a.email;
Result Grid 📗 🐞 Filter Rows: 🔌
                                                  Export: 📳 Wrap Cell Content: 🏗
     emp_no first_name
1 24
2 4
3 9
4 16
5 11
6 34
7 23
8 32
9 17
10 31
                              Faulkner andrew@guvi.com
                                                                               Development 55000 2016-08-05
             Andrew
                              Faulkner
                                        andrew@guvi.com
                                                                               Development 55000
                                                                                                    2016-08-05
                              Joseph
                                        evanjoseph@guvi.com
                                                                                             32000
                                                                                            32000 2014-07-09
             Evan
                              Joseph
                                        evanioseph@guvi.com
                                                                               Finance
                              Smith
                                        johnsmith@yahoo.com
                                                                                             99000
                                                                                                    2009-04-12
                                                                                                    2009-04-12
             John
                              Smith
                                        johnsmith@yahoo.com
                                                                               Engineer
                                                                                            99000
                                        rose@guvi.com
                                                                                            20000
                                                                                                    2007-06-12
             Rose
                              Summers rose@guvi.com
                                                                               IT support
                                                                                            20000
                              Miles
                                         sammiles@solutions.in
                                                                               Development 95000 2018-08-19
Development 95000 2018-08-19
                              Miles
             Sam
                                         sammiles@solutions.in
                                         sammiles@solutions.in
                                                                               Development 95000
```

3. How to remove duplicate rows from the Employees table.

Note: Removed 6 duplicate records

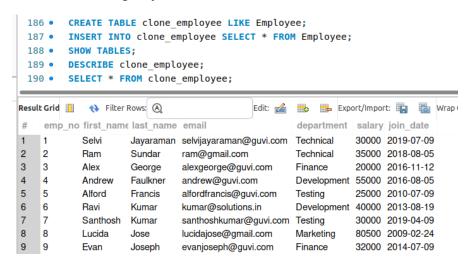


## Task-7

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

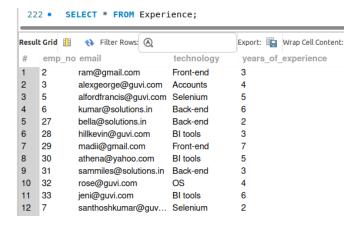
```
# Write an SQL query to show only odd rows from a table.
 137 •
 138
         FROM Employee
         WHERE emp_no NOT IN
 139
 140
 141
                  SELECT emp_no
 142
                  FROM Employee
 143
                  WHERE MOD(emp_no,2)=0
 144
Result Grid 🎚
             N Filter Rows:
                                             Edit: 🚄 🛗 Export/Import: 📳 📸 Wrap Cell Content: 🟗
    emp no first name
                                                                         department salary join date
                           last name email
1
            Selvi
                           Jayaraman selvijayaraman@guvi.com
                                                                         Technical
                                                                                    30000 2019-07-09
2
                                    alexgeorge@guvi.com
                                                                         Finance
                                                                                     20000 2016-11-12
                           George
3
            Alford
                                                                                     25000
                                                                                            2010-07-09
                                     alfordfrancis@guvi.com
                                                                         Testing
4 5
            Santhosh
                           Kumar
                                    santhoshkumar@guvi.com
                                                                         Testing
                                                                                     30000 2019-04-09
    9
                           Joseph
                                    evanjoseph@guvi.com
                                                                         Finance
                                                                                     32000 2014-07-09
           Evan
6
7
    11
                                    iohnsmith@vahoo.com
                                                                         Engineer
                                                                                    99000 2009-04-12
           John
                           Smith
                                     stark@guvi.com
                                                                                    35000 2013-08-05
    13
                                                                         Salesman
            Tony
                           Stark
    15
           Kim
                           Jarvis
                                    kim@gmail.com
                                                                         Testing
                                                                                     35000 2017-08-09
9
    17
           Sam
                           Miles
                                     sammiles@solutions.in
                                                                         Development 95000 2018-08-19
10
    19
            Connie
                           Smith
                                     smith@gmail.com
                                                                         Marketing
                                                                                    30500
                                                                                           2009-02-14
                                    paultimothyh@guvi.com
11
    21
                           Timothy
                                                                         Finance
                                                                                     90000 2020-03-15
12
   23
                                                                                     20000
                           Summers
                                    rose@guvi.com
                                                                         IT support
                                                                                            2007-06-12
13
                           Mathew
                                                                         Salesman
                                                                                     40000 2017-11-12
            Karen
                                     karen@guvi.com
                                     bella@solutions.in
                                                                         Development 55000 2013-08-09
                           Swan
```

2. Write an SQL query to clone a new table from another table.



#### Task-8

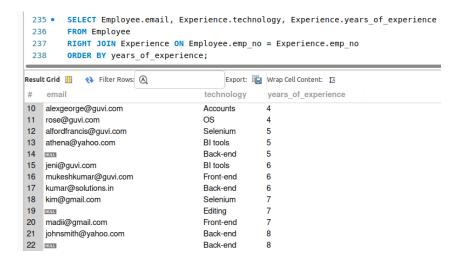
1. Write an SQL query to fetch intersecting records of two tables. Created new table called "Experience"



### Fetching intersecting records

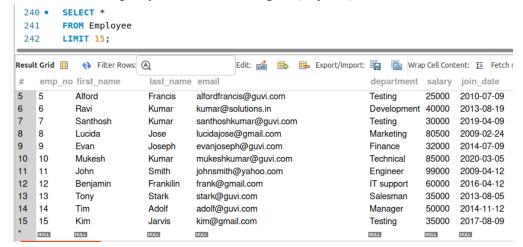


2. Write an SQL query to show records from one table that another table does not have.

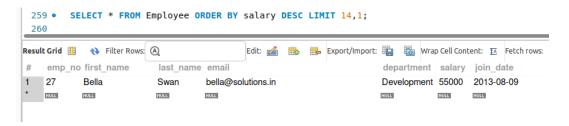


#### Task-9

1. Write an SQL query to show the top n (say 15) records of a table.



2. Write an SQL query to determine the nth (say n=15) highest salary from a table.



#### Task-10

1. Write an SQL query to determine the 8th highest salary without using TOP or LIMIT methods.

```
284 •
        SELECT *
285
        FROM
            ( SELECT ROW NUMBER()
286
              OVER (ORDER BY SALARY DESC) AS rownumber, Salary
287
              FROM Employee
288
            )
289
290
       AS salary
291
       WHERE rownumber = 8;
                                            Export: Wrap Cell Content: IA
           Filter Rows: (A)
  rownumber Salary
 8
             85000
```

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

