



National Institute of Technology, Agartala  
**GOVERNMENT OF INDIA**  
 Department of Computer Science & Engineering

Roll No. 22MCA016 Semester... II<sup>nd</sup> Date 27/03/23 Page No. 15

\* Experiment - 2 \*

1-> Aim:- To select WORKER\_ID , FIRST\_NAME , LAST\_NAME , SALARY , JOINING\_DATE , DEPARTMENT

\* Query:- SELECT WORKER\_ID , FIRST\_NAME , LAST\_NAME , SALARY , JOINING\_DATE , DEPARTMENT FROM Workers

\* Output:-

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	Monika	Asopa	100000	2014-02-20 09:00:00	HR

\* Extended table (Dataset) for further queries:

\* Workers:

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	Monika	Asopa	100000	2014-02-20 09:00:00	HR
2	Amitabh	Asopa	200000	2014-01-19 09:00:00	SDE
3	Ashutosh	Singh	15000	2021-01-01 09:00:00	Sales
4	Satish	Kumar	15000	2020-01-01 09:00:00	Sales
5	Vipul	Das	500000	2010-01-01 09:00:00	PR

Bonus:

WORKER_ID	BONUS_DATE	BONUS_AMOUNT
1	2016-02-20 00:00:00	5000
3	2022-08-20 00:00:00	1000
5	2022-10-24 00:00:00	100000



Assam Institute of Technology, Agartala  
GOVERNMENT OF INDIA  
Department of Computer Science & Engineering

Roll No. 22MCA016.. Semester... II<sup>nd</sup>..... Date. 27. / 03. / 23. .... Page No. 17.....

\* Title:

WORKER-REF-ID	WORKER-TITLE	AFFECTED-FROM
1	Manager	2016-08-20 00:00:00
3	Head	2021-08-10 00:00:00
4	Director	2021-01-10 00:00:00
5	BA	2020-01-01 00:00:00

2) Aim: Write SQL query to fetch unique value of DEPARTMENT from worker Table :

\* Query: SELECT DISTINCT DEPARTMENT FROM Worker;

\* Output:

DEPARTMENT
HR
SDE
Sales
PR

3) Aim: Write an SQL query to Point the first three characters of FIRST-NAME from Worker table

\* Query: SELECT LEFT (FIRST\_NAME, 3) FROM Worker;

\* Output:

LEFT(FIRST_NAME,3)
Mon
Ami
Ash
Sat
Vip



Institute of Technology, Agartala  
GOVERNMENT OF INDIA  
Department of Computer Science & Engineering

Roll No. 22MCA016 Semester.... II<sup>nd</sup>

Date 27 / 03 / 23 Page No. 19

4. Aim: SQL Query to find the position of the alphabet ('a') in the first name column 'Amitabh' from the Workers Table.

\* Query: SELECT POSITION ('A' IN FIRST\_NAME) FROM Workers WHERE FIRST\_NAME = "Amitabh"

\* Output:

POSITION('A')
1

5. Aim: SQL Query to Print the first\_name from Workers Table after removing white space from right side.

\* Query: SELECT RTRIM (First-name) FROM Workers;

\* Output:

Trim(First-name)
Monika
Amitabh
Ashutosh
Satish
Vipul



**Jawaharlal Nehru Institute of Technology, Agartala**  
**GOVERNMENT OF INDIA**  
**Department of Computer Science & Engineering**

Roll No: 22MCA016, Semester: II<sup>nd</sup>, Date: 27/03/2023, Page No.: 21.....

6. > Aim: Write an SQL query to print the DEPARTMENT from Workers table after removing white spaces from the left side.

\* Query: SELECT LTRIM (DEPARTMENT) FROM Workers;

\* Output:

Trim (DEPARTMENT)
HR
SDE
Sales
Sales
PR

7. > Aim: Write an SQL query that fetches the unique value of DEPARTMENT from Workers table and prints its length.

\* Query: SELECT DISTINCT DEPARTMENT, LENGTH (DEPARTMENT) FROM Workers GROUP BY DEPARTMENT

\* Output:

DEPARTMENT	LENGTH (DEPARTMENT)
HR	2
SDE	3
Sales	5
PR	2



National Institute of Technology, Agartala  
GOVERNMENT OF INDIA  
Department of Computer Science & Engineering

Roll No. 22MCA016, Semester: II<sup>04</sup>

Date: 27.03.2023..... Page No. 23.....

\* Aim: SQL query to Print the FIRST\_NAME and LAST\_NAME of workers table into a single column COMPLETE\_NAME A space char should separate them.

\* Query: `SELECT CONCAT (FIRST_NAME, " ", LAST_NAME) AS COMPLETE_NAME  
FROM workers;`

\* Output:

COMPLETE_NAME
Monika Asopa
Anubhab Asopa
Akshatosh Singh
Satish Kumar
Vipul Das

\* Aim: Write an SQL query to Print details for workers with the first name as "Vipul" and "Satish" from workers table.

\* Query: `SELECT * FROM workers WHERE FIRST_NAME IN ("Vipul", "Satish")`

\* Output:

WORKER-ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
4	Satish	Kumar	15000	2020-01-01 09:00:00	Sales
5	Vipul	Das	50000	2010-01-01 09:00:00	PR



National Institute of Technology, Agartala  
**GOVERNMENT OF INDIA**  
 Department of Computer Science & Engineering

Roll No. 22MCA016 Semester... II<sup>nd</sup> Date 27/03/23 Page No. 25

10. Aim: Write an SQL query to Print all worker details from the Worker table order by FIRST\_NAME Ascending and DEPARTMENT Descending.

\* Query: SELECT \* FROM Worker ORDER BY First\_name ASC, Department DESC;

\* Output:

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
2	Amitabh	Aroora	200000	2014-01-19 09:00:00	SDE
3	Ashutosh	Singh	15000	2021-01-01 09:00:00	Sales
1	Monika	Aroora	100000	2014-02-20 09:00:00	HR
4	Satish	Kumar	15000	2020-01-01 09:00:00	Sales
5	Vibul	Das	500000	2010-01-01 09:00:00	PR

11. Aim: Write an SQL query to Print details of the worker whose FIRST\_NAME contains 'a'

\* Query: SELECT \* FROM Worker WHERE FIRST\_NAME LIKE "%a%";

\* Output:

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	Monika	Aroora	100000	2014-02-20 09:00:00	HR
2	Amitabh	Aroora	200000	2014-01-19 09:00:00	SDE
3	Ashutosh	Singh	15000	2021-01-01 09:00:00	Sales
4	Satish	Kumar	15000	2020-01-01 09:00:00	Sales

**National Institute of Technology, Agartala**  
**GOVERNMENT OF INDIA**  
*Department of Computer Science & Engineering*

Roll No 22MCA16... Semester: II..... Date: 27/03/2013..... Page No. 27.....



12>Aim: Wrote an SQL query to Print details of the workers whose SALARY use between 100000 and 500000.

\*Query: `SELECT * FROM worker WHERE SALARY BETWEEN 100000 AND 500000;`

\*Output:

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	Monika	Arosha	100000	2014-02-20 09:00:00	HR
2	Anitabir	Arosha	200000	2014-01-19 05:00:00	SDE
3.	Vipul	Das	50000	2010-01-01 09:00:00	PR

13>Aim: SQL query to Print details of the workers who have joined in Feb 2014 (Date can be any).

\*Query: `SELECT * FROM worker WHERE JOINING_DATE LIKE '2014-02%';`

\*Output:

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1.	Monika	Arosha	100000	2014-02-20 09:00:00	HR



National Institute of Technology, Agartala  
GOVERNMENT OF INDIA  
Department of Computer Science & Engineering

Roll No 22MCA016, Semester: III<sup>rd</sup>, Date: 27/03/2023, Page No. 22

14. Aim: Write an SQL query to fetch workers names with SALARY  $\geq$  50000 AND  $\leq$  100000

\* Query: `SELECT CONCAT(FIRST_NAME, " ", LAST_NAME) AS Worker_name, SALARY FROM Worker WHERE SALARY BETWEEN 50000 AND 100000;`

\* Output:

Worker_name	SALARY
Monika Astooa	100000

15. Aim: Write an SQL query to fetch the no of workers for each department in the descending order.

\* Query: `SELECT DEPARTMENT, COUNT(Worker_id) AS no_of_workers FROM Worker GROUP BY DEPARTMENT ORDER BY no_of_workers DESC;`

\* Output:

DEPARTMENT	NO_OF_WORKERS
Sales	2
HR	1
SDE	1
PR	1



**National Institute of Technology, Agartala**  
**GOVERNMENT OF INDIA**  
*Department of Computer Science & Engineering*

GOVERNMENT OF INDIA  
Department of Computer Science & Technology

卷之三

四

Roll No \_\_\_\_\_ Date \_\_\_\_\_ Page \_\_\_\_\_

22 MC

Ques: Aim: Write an SQL query to print details of workers who are also manager.  
SELECT \* FROM Workers INNER JOIN Title ON Workers.Worker\_id = Title.Worker\_id AND Title.Title IN ('Manager');

WORKER_ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	Mrunika	Anessa	100000	2014-02-20 09:00:00	HR

**It's Aim:** SQL query to fetch duplicate records having matching data in some

```
* Query: SELECT Worker_Title , Affected_Earn , count(*) FROM TITLE GROUP BY Worker_Title , Affected_Earn Having count(*) > 1 ;
```

\* Output: Empty set.

18. Aim: Write an SQL query to fetch intersecting records of two tables

\* Output: Errors

Since, the 2 tables are not intersect compatible -

**National Institute of Technology, Agartala**  
**GOVERNMENT OF INDIA**  
**Department of Computer Science & Engineering**  


Roll No. 22MC016, Semester.... II<sup>nd</sup>

Date 22./.03./.23. Page No. ....

19) Aim:

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

\* Query: `SELECT * FROM workers WHERE MOD (workers-ID, 2) < > 0;`

\* Output:

WORKER-ID	FIRST_NAME	LAST_NAME	SALARY	JOINING_DATE	DEPARTMENT
1	Monika	Arsoa	100000	2014-08-20 05:00:00	HR
3	Ashutosh	Singh	15000	2021-01-01 05:00:00	Sales
5	Virendra	Das	50000	2010-01-01 05:00:00	PR

20) Aim: Write an SQL query to show records from a table that another table does not have.

\* Query: `(SELECT worker_id FROM workers) MINUS (SELECT worker_id FROM Title);`

\* Output:

Worker_id
2
4