

Heavens Light is Our Guide
Rajshahi University of Engineering & Technology



Course Title
Data Base Systems Sessional

Course No: ECE 2216

Lab Report: 01

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Experiment No: 02

Experiment Name: Database query using mysql.

Objective:

1. Study various operation of Data Definition Language (DDL)
2. Study various operation of Data Manipulation Language (DML)

Problem Statement:

Create a database table named employment containing following information of 9 employees and complete the following tasks:

employee_id	first_name	last_name	department	salary
1	Fahmid	Nabi	Sales	55000
2	Nafisa	Nawar	HR	45000
3	Sabbir	Rahman	Sales	65000
4	Chotan	Chakma	Finance	70000
5	Jahin	Jubayer	IT	60000
6	Sadik	Rahman	Finance	70000
7	Fouzia	Sithy	Sales	50000
8	Himel	Reza	HR	47000
9	Shahin	Mahmud	HR	45000

Query:

```
1 CREATE TABLE employee (  
2     employee_id INT(100),  
3     first_name VARCHAR(255),  
4     last_name VARCHAR(255),  
5     department VARCHAR(255),  
6     salary INT(100)  
7 )|  
  
1 INSERT INTO employee (employee_id, first_name, last_name, department, salary)  
2 VALUES  
3 (1, 'Fahmid', 'Nabi', 'Sales', 55000),  
4 (2, 'Nafisa', 'Nawar', 'HR', 45000),  
5 (3, 'Sabbir', 'Rahman', 'Sales', 65000),  
6 (4, 'Chotan', 'Chakma', 'Finance', 70000),  
7 (5, 'Jahin', 'Jubayer', 'IT', 60000),  
8 (6, 'Sadik', 'Rahman', 'Finance', 70000),  
9 (7, 'Fouzia', 'Sithy', 'Sales', 50000),  
10 (8, 'Himel', 'Reza', 'HR', 47000),  
11 (9, 'Shahin', 'Mahmud', 'HR', 45000);
```

Output:

employee_id	first_name	last_name	department	salary
1	Fahmid	Nabi	Sales	55000
2	Nafisa	Nawar	HR	45000
3	Sabbir	Rahman	Sales	65000
4	Chotan	Chakma	Finance	70000
5	Jahin	Jubayer	IT	60000
6	Sadik	Rahman	Finance	70000
7	Fouzia	Sithy	Sales	50000
8	Himel	Reza	HR	47000
9	Shahin	Mahmud	HR	45000

Task-1: Find the first name and last name of the employees of Finance department and show them in order according to salary.

Query:

```
1 SELECT first_name, last_name FROM employment WHERE department='finance' ORDER BY salary
```

Output:

first_name	last_name
Chotan	Chakma
Sadik	Rahman

Task-2: Find the first name and last name of the employees with the highest salary.

Query:

Run SQL query/queries on table class_21.employment: ⓘ

```
1 SELECT first_name, last_name FROM `employment` WHERE salary = (SELECT MAX(salary) FROM employment)
```

Output:

first_name	last_name
Chotan	Chakma
Sadik	Rahman

Task-3: Find the first name and last of the employees who have salary of less than 47,000

Query:

```
1 SELECT first_name, last_name FROM employment WHERE salary<47000|
```

Output:

first_name	last_name
Nafisa	Nawar
Shahin	Mahmud

Task-4: Find the first name and last of the employees who work in the finance department and have salary of more than 70,000

Query:

```
1 SELECT first_name, last_name FROM employment WHERE department = 'finance' AND salary>70000
```

Output:

first_name	last_name
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