

Heaven's Light is Our Guide

# Rajshahi University of Engineering & Technology



## Department of Electrical & Computer Engineering

Course Code : ECE 2216

Course Title : Data Base Systems

Experiment No. : 01

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## Experiment No: 01

### Experiment Name:

Create a database containing info for 9 employees

- i. Employee id
- ii. First Name
- iii. Last Name
- iv. Department
- v. Salary

### Theory:

Structured query language (SQL) is a programming language for storing and processing information in a relational database. A relational database stores information in tabular form, with rows and columns representing different data attributes and the various relationships between the data values. You can use SQL statements to store, update, remove, search, and retrieve information from the database. You can also use SQL to maintain and optimize database performance.

### Task-1: Inserting data into table

Solution:

```
1  INSERT INTO emplyees (emplyee_id, first_name, last_name, department, salary)
2  VALUES
3      (1, 'Fahmid', 'Nabi', 'Sales', 55000.00),
4      (2, 'Nafisha', 'Nawar', 'HR', 45000.00),
5      (3, 'Sabbir', 'Rahman', 'Sales', 65000.00),
6      (4, 'Chotan', 'Chakma', 'Finance', 70000.00),
7      (5, 'Jubayer', 'Brown', 'IT', 60000.00),
8      (6, 'Sadik', 'Rahman', 'Finance', 70000.00),
9      (7, 'Fouzia', 'Sithy', 'Sales', 50000.00),
10     (8, 'Himel', 'Reza', 'HR', 47000.00),
11     (9, 'Shahin', 'Mahmud', 'HR', 45000.00);
12
```

Output:

	employee_id	first_name	last_name	department	salary
	Filter	Filter	Filter	Filter	Filter
1	1	Fahmid	Nabi	Sales	550...
2	2	Nafisha	Nawar	HR	450...
3	3	Sabbir	Rahman	Sales	650...
4	4	Chotan	Chakma	Finance	700...
5	5	Jubayer	Brown	IT	600...
6	6	Sadik	Rahman	Finance	700...
7	7	Fouzia	Sithy	Sales	500...
8	8	Himel	Reza	HR	470...
9	9	Shahin	Mahmud	HR	450...

**Task-2:** Display salary more than 70000

```
1 SELECT first_name, last_name, salary FROM employees WHERE department = "Finance" AND salary > 70000;
```

first_name	last_name	salary
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### Task-3: Display Finance department salary by order

```
1 SELECT first_name, last_name, salary FROM employees WHERE department = 'Finance' ORDER BY salary DESC;
```

	first_name	last_name	salary
1	Chotan	Chakma	70000
2	Sadik	Rahman	70000

### Task-4: Display the max salary employee list from the table

```
1 SELECT first_name, last_name, salary FROM employees WHERE salary= (SELECT max(salary) FROM employees);
```

	first_name	last_name	salary
1	Chotan	Chakma	70000
2	Sadik	Rahman	70000

### References:

1. <https://aws.amazon.com/what-is/sql/>