

LAB REPORT # 02



DEPARTMENT OF SOFTWARE ENGINEERING

Submitted To

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SECTION#A

ID: NUML-S21-21490

Subject: DATABASE MANAGEMENT SYSTEM

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LAB REPORT # 02

Query for addition, subtraction, division, and multiplication:

We can create, edit or retrieve data from databases by using query. In this lab we use SQL (structured query language) to perform these tasks.

This key select all the columns/features of the table. We can specify the columns we want to use instead of *.

Select *

Select id

From table_name

Inside these two statements we write our functions we want to perform like multiplication, addition etc.

```
1 • SELECT *,
2     SALARY * 12 "MULTIPLYSALARY",
3     SALARY / 12 "DIVISIONSALARY",
4     SALARY + 300 "ADDITIONSALARY",
5     SALARY - 300 "SUBTRACTEDSALARY"
6 FROM ilyasrecord.new_table;
```

CREATE SCHEMA:

First of all we create schema/directory name of project then we create table. After that we specify the columns and their type.

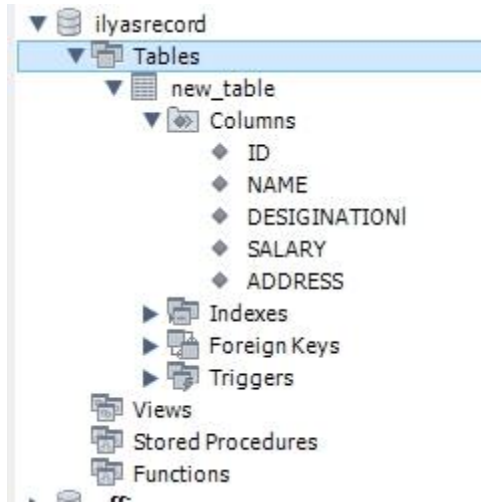


TABLE IN VIEW:

	ID	NAME	DESIGNATIONI	SALARY	ADDRESS	MULTIPLYSALARY
▶	1	ARHAM GUL	GRAPHIC DESIGNER	30000	ISB	360000
	2	ASAD IJAZ	GRAPHIC DESIGNER	33000	PWD	.396000
	3	ILYAS AHMED	DATA SCIENTIST	50000	ISB	600000
	4	TABISH KHIZAR	WEB DEVELOPER	40000	RWP	480000

DIVISIONSALARY	ADDITIONSALARY	SUBTRACTEDSALARY
2500.0000	30300	29700
2750.0000	33300	32700
4166.6667	50300	49700
3333.3333	40300	39700

ANOTHER WAY TO WRITE QUERY:

```
CREATE SCHEMA Record;
```

```
USE Record;
```

```
CREATE TABLE Record
```

```
(
```

```
    emp_id INT PRIMARY KEY NOT NULL AUTO_INCREMENT,
```

```
    emp_name VARCHAR(50) NOT NULL,
```

```
    emp_job VARCHAR(50) NOT NULL,
```

```
    emp_salary INT NOT NULL
```

```
);
```

```
INSERT INTO Record(emp_name, emp_job, emp_salary)
```

```
VALUES
```

```
(
```

```
    'Samar Ali', 'Web Developer', 45500
```

```
),
```

```
(
```

```
    'Ajab Nauman', 'Machine Learning Engineer', 78000
```

```
),
```

```
(
```

```
    'Hameed Khan', 'Project Manager', 68000
```

```
),
```

```
(  
    'Ilyas Ahmed', 'Machine Learning Engineer', 34500  
)  
  
(  
    'Tabish Khizar', 'Web Developer', 39000  
);  
  
SELECT *,  
  
emp_salary + 300 AS addedSalary,  
  
ROUND(emp_salary / 300, 3) AS dividedSalary,  
  
emp_salary - 300 AS subtractedSalary,  
  
emp_salary * 300  
  
AS multipliedSalary  
  
FROM Record;
```