DBMS LAB 9
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```
CREATE DATABASE LAB9;
USE LAB9;
DROP TABLE DEPT;
DROP TABLE EMP;
create table DEPT (
    DEPTNO INT,
    DNAME varchar (30),
    LOC varchar (20),
     PRIMARY KEY(DEPTNO)
);
create table EMP (
     EMPNO numeric (6),
     ENAME varchar (20),
    JOB varchar (10),
    DEPTNO INT,
    SAL numeric (7,2),
    primary key (EMPNO),
    foreign key (DEPTNO) references DEPT(DEPTNO)
);

insert into EMP
values (163, 'Clara Dutta', 'IT_PROG', 1, 1000.0),
    (1, 'Abeshek Kumar', 'ST_PROG', 2, 1054.12),
    (2, 'Ahmed Patel', 'IT_PROG', 3, 30231.12),
    (183, 'Anjaneya Pandey', 'ST_PROG', 4, 10523.12),
    (5, 'Pranav Kumar', 'IT_PROG', 5, 100.1),
    (134, 'Karan Purswani', 'IT_PROG', 1, 103.43),
    (7, 'Chandra Sardesai', 'ST_PROG', 2, 1052.0),
    (159, 'Brijesh Sankar', 'IT_PROG', 3, 8078.0),
    (9, 'Ramki Singh', 'IT_PROG', 4, 10213.21),
    (10, 'Arun Shrivastava', 'ST_PROG', 5, 10213.21),
    (121, 'Dhruv Bodani', 'IT_PROG', 1, 1099.99),
    (133, 'Sriram P', 'ST_PROG', 5, 13200.05);

insert into DEPT
values (1, 'Administration', 'NIT Trichy'),
    (2, 'Marketing', 'Mumbai'),
```
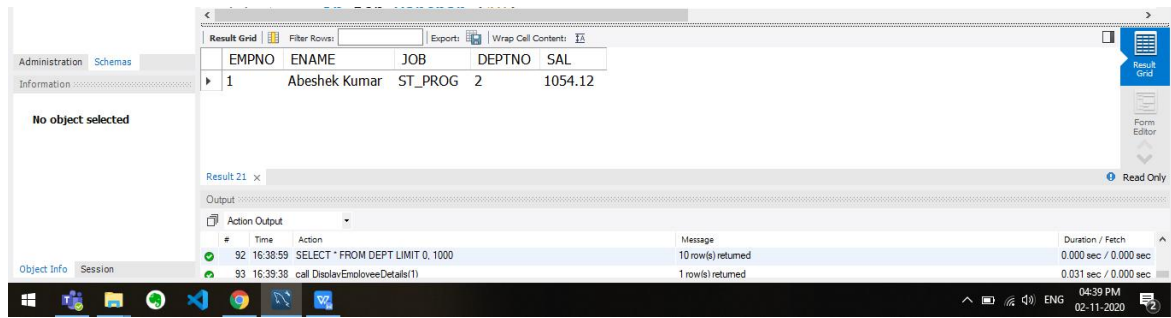
(3, 'Purchasing', 'IIT Bombay'),
(4, 'Human Resources', 'IIT Bombay'),
(5, 'Shipping IT', 'IIT Delhi'),
(6, 'Public Relations', 'IIT Delhi'),
(7, 'Sales', 'IIT Kharagpur'),
(8, 'Executive', 'NIT Trichy'),
(9, 'Finance', 'NIT Trichy'),
(10, 'Accounting', 'IIT Delhi');

-- 1)
create procedure DisplayEmployeeDetails(in employeeNumber numeric (6))
SELECT *
FROM EMP
WHERE EMP.EMPNO = employeeNumber;

call DisplayEmployeeDetails(1);

-- 2)
```sql
create procedure AddEmployee(
    in empNo numeric (6),
    in empName varchar (20),
    in job varchar (10),
    in deptNo numeric (3),
    in sal numeric (7,2))
insert into EMP
values (empNo, empName, job, deptNo, sal);

call AddEmployee(123, 'Mohan Kumar', 'IT_PROG', 6, 1000.95);
```
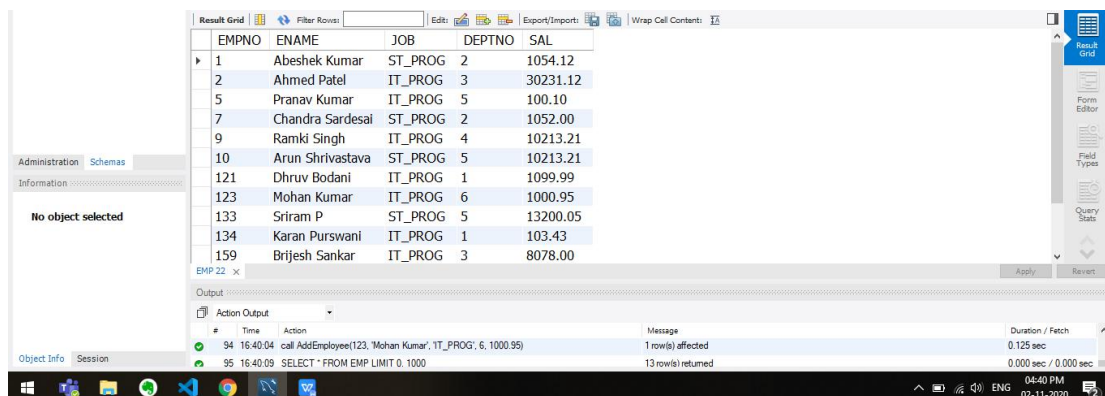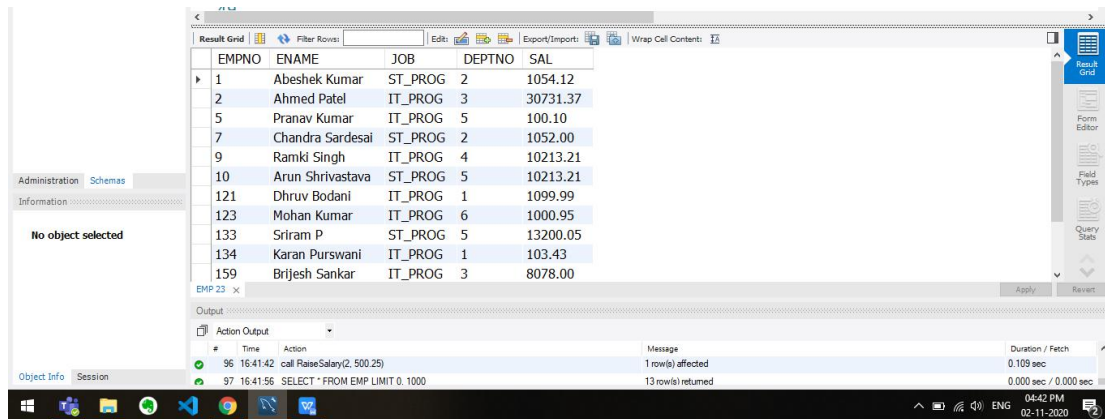

-- 3)
```sql
create procedure RaiseSalary(
    in empNo numeric (6),
    in raiseAmount numeric (7, 2))
update EMP set SAl=SAL + raiseAmount where EMP.EMPNO=empNo;

call RaiseSalary(2, 500.25);
```
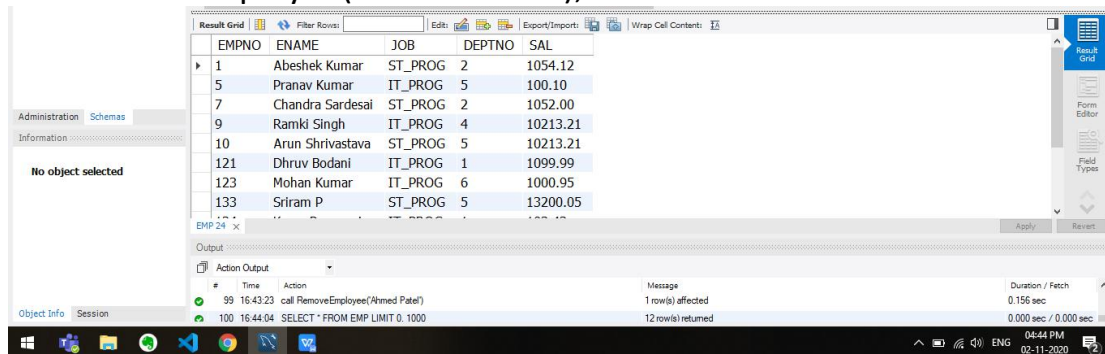
-- 4)

```
create procedure RemoveEmployee(in empName varchar (20))
delete from EMP     where ENAME=empName;

call RemoveEmployee('Ahmed Patel');
```


-- 5)

```
DELIMITER //
create function MinSalary()
returns numeric(7,2) DETERMINISTIC
begin
    declare minSal numeric(7,2);
    select min(SAL) into minSal from EMP;
    return minSal;
end //
DELIMITER ;
select MinSalary();
```
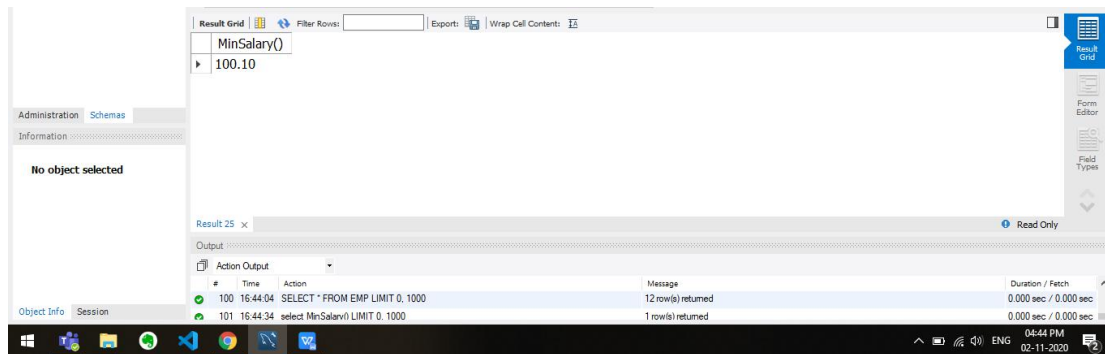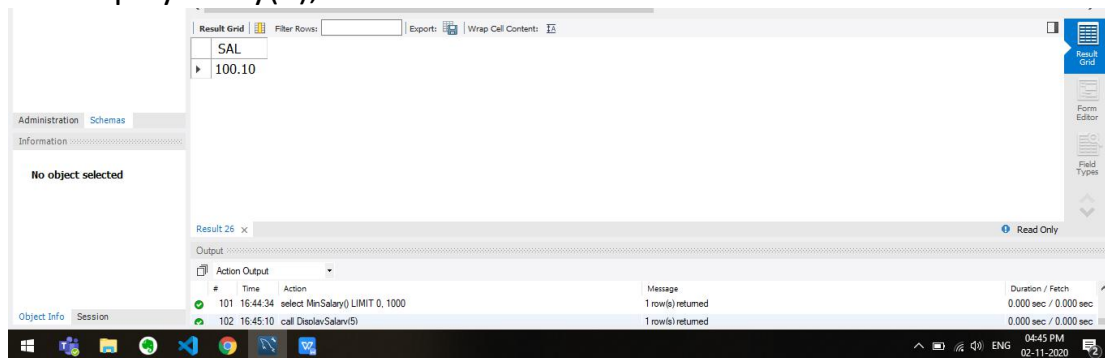
-- 6)
```sql
create procedure DisplaySalary(in empNo numeric (6))
select SAL from EMP where EMP.EMPNO=empNo;
```

```sql
call DisplaySalary(5);
```


-- 7)
```sql
DELIMITER //
create function Average(deptNo numeric (2)) returns numeric(7,2)
DETERMINISTIC
begin
    declare ans numeric(7,2);
    select avg(SAL) into ans from EMP where EMP.DEPTNO=deptNo;
    return ans;
end;//
DELIMITER ;
```
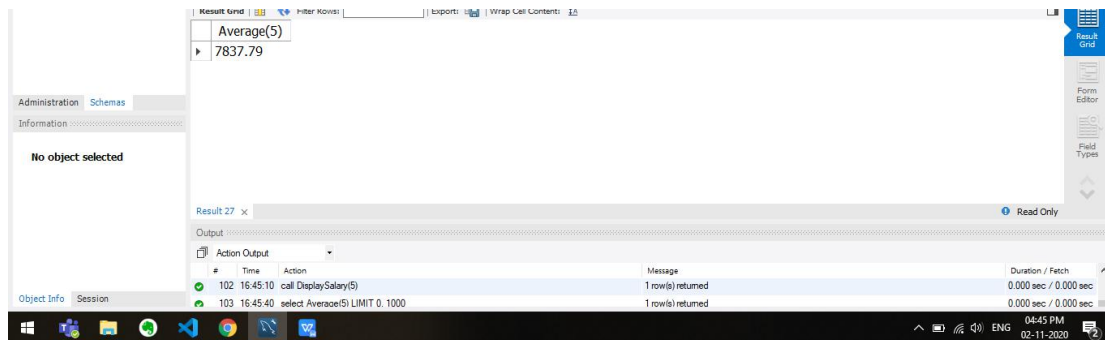
```sql
select Average(5);
```

-- 8)
DELIMITER //
create function HighestPaid(deptNo numeric (2))
returns numeric(7,2) DETERMINISTIC
begin
    declare ans numeric(7,2);
    select max(SAL) into ans
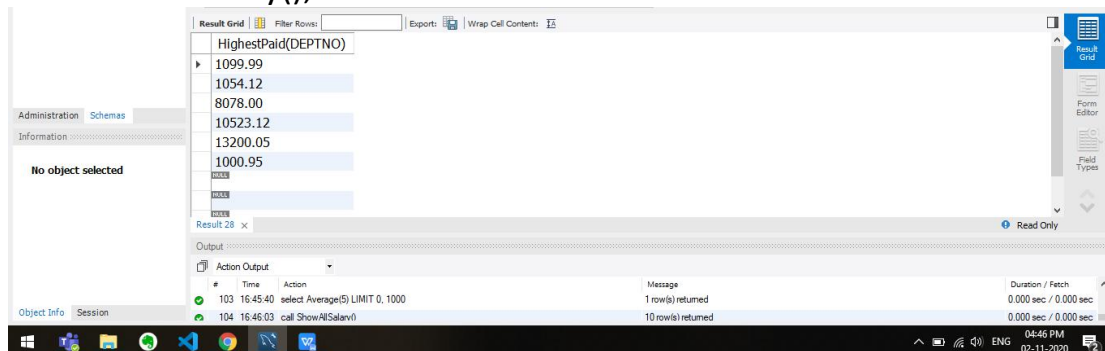   from EMP
    where EMP.DEPTNO=deptNo;
    return ans;
end;//
DELIMITER ;

create procedure ShowAllSalary()
select HighestPaid(DEPTNO) from DEPT;

call ShowAllSalary();

-- 9)
DELIMITER //
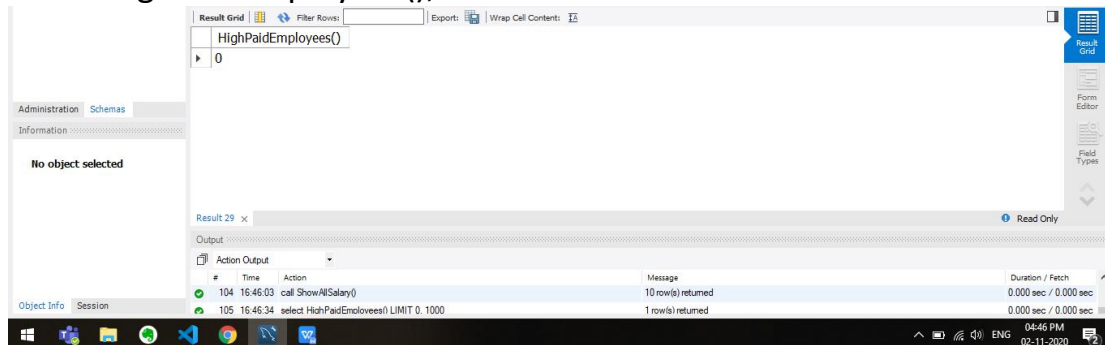create function HighPaidEmployees() returns int DETERMINISTIC
begin

```
    declare ans int;
    select count(empNo) into ans
    from EMP
    where EMP.SAL > 30000;
    return ans;
end//
DELIMITER ;


select HighPaidEmployees();
```



```
-- 10)
DELIMITER //
create function MumbaiCount() returns int DETERMINISTIC
begin
    declare ans int;
    select count(empNo) into ans
    from EMP
    where EMP.DEPTNO = (select DEPTNO from DEPT where
DEPT.LOC='Mumbai');
    return ans;
end;//
DELIMITER ;


select MumbaiCount();
```