

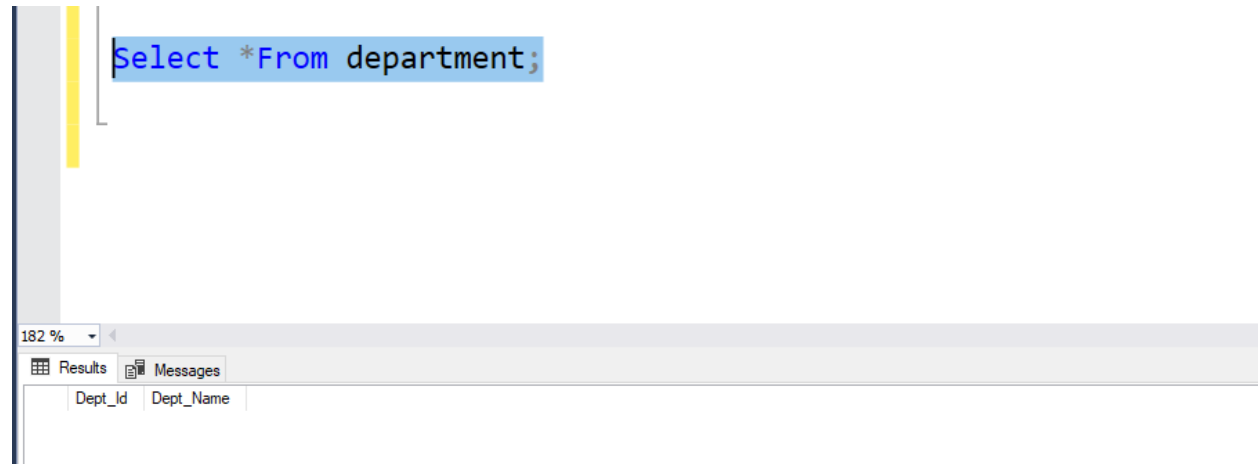
# SQL ASSIGNMENT

MID:M1082972, Name: B Karthik

## Assignment-1

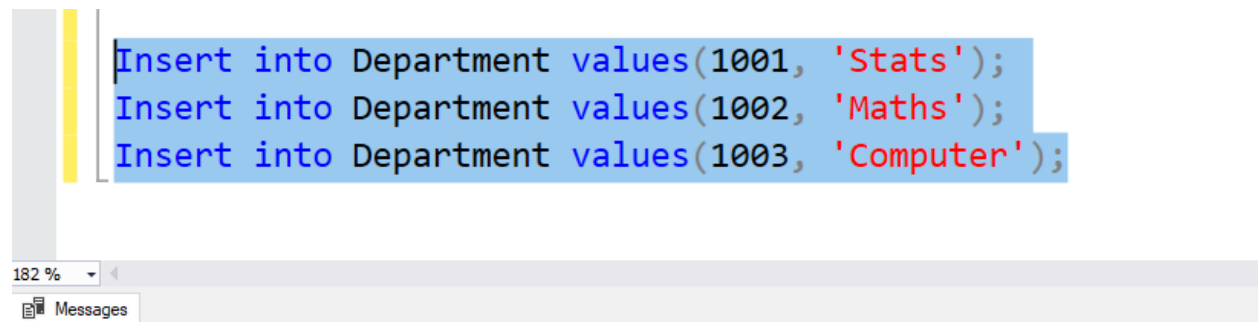
1.

```
Select *From department;
```



The screenshot shows a SQL query execution interface. The query 'Select \*From department;' is entered in the top text area. Below the query, there is a tabbed interface with 'Results' and 'Messages' tabs. The 'Results' tab is active, displaying a table with two columns: 'Dept\_Id' and 'Dept\_Name'. The table is currently empty.

```
Insert into Department values(1001, 'Stats');  
Insert into Department values(1002, 'Maths');  
Insert into Department values(1003, 'Computer');
```



The screenshot shows a SQL query execution interface. The query 'Insert into Department values(1001, 'Stats'); Insert into Department values(1002, 'Maths'); Insert into Department values(1003, 'Computer');' is entered in the top text area. Below the query, there is a tabbed interface with 'Messages' and 'Results' tabs. The 'Messages' tab is active, displaying three rows of output: '(1 row affected)', '(1 row affected)', and '(1 row affected)'.

(1 row affected)

(1 row affected)

(1 row affected)

Completion time: 2022-04-03T17:37:19.8557596+00:00

SQL query editor showing the command:

```
Select *From department;
```

Below the query editor, the results pane displays the output of the query:

	Dept_Id	Dept_Name
1	1001	Stats
2	1002	Maths
3	1003	Computer

Semister

SQL query editor showing the command:

```
Select *From Semester;
```

Below the query editor, the results pane displays the output of the query:

Sem_Id	Sem_Name	Academic_Year
--------	----------	---------------

SQL query 2.sql - (10.0.0.001 \aduser (24))

```
Select *From Semester
```

100 %

Results Messages

	Sem_Id	Sem_Name	Academic_Year
1	4	Odd	2021
2	5	Even	2021
3	6	Even	2022
4	7	Odd	2022

## Staff

```
Insert into Staff values( 'Burada', 'Karthik', 'Science Teacher', '1988-03-12', 1002, '2021-03-12', 23, 20210)
Insert into Staff values( 'Kovvadi', 'Madhu', 'English Teacher', '1989-03-12', 1003, '2021-03-12', 32, 21210)
Insert into Staff values( 'Burada', 'Santhosh', 'social Teacher', '1988-03-12', 1001, '2021-03-12', 29, 23210)

Select *From Staff;
```

2 %

Results Messages

Staff_Id	St_FirstName	St_LastName	Designation	St_DOB	St_DeptId	Staff_Doj	St_exp	St_Sal
1	Burada	Karthik	Science Teacher	1988-03-12	1002	2021-03-12	23	20210
2	Kovvadi	Madhu	English Teacher	1989-03-12	1003	2021-03-12	32	21210
3	Burada	Santhosh	social Teacher	1988-03-12	1001	2021-03-12	29	23210

## Students

```

Insert into Students values( 'Burada1','Karthik1','1990-03-12','2021-03-12',1001,
'Sri Sai Nilayam','Balaji Nagar','Hyderabad','500013',1);
Insert into Students values( 'Burada1','Vasau','1991-03-12','2021-03-20',1003,
'Sri Nilayam','Balajipur','Hyderabad','500013',3);
Insert into Students values( 'Valurouth','Karthik','1990-08-12','2022-03-12',1002,
'Sai Nilayam','Indira Nagar','Hyderabad','500013',2);
Select *From Students;

```

St_Id	St_FName	St_LName	DOB	Join_Date	St_Dept_Id	House_Name	Street_Name	City	Zipcode	Staff_Incharge_Id
2	Burada1	Karthik1	1990-03-12	2021-03-12	1001	Sri Sai Nilayam	Balaji Nagar	Hyderabad	500013	1
3	Burada1	Vasau	1991-03-12	2021-03-20	1003	Sri Nilayam	Balajipur	Hyderabad	500013	3
4	Valurouth	Karthik	1990-08-12	2022-03-12	1002	Sai Nilayam	Indira Nagar	Hyderabad	500013	2

3

### Course\_details

```

Insert into Course_Details values(11,'BSc',5,1001,'Regular');
Insert into Course_Details values(12,'BA',4,1003,'Part time');
Insert into Course_Details values(13,'BCom',6,1002,'Regular');
Select *From Course_Details;

```

Course_Code	Course_Name	Sem_Id	Dept_Id	Course_Type
11	BSc	5	1001	Regular
12	BA	4	1003	Part time
13	BCom	6	1002	Regular

4

### Student\_marks

```

Insert into Students_Marks values(4,11,46,12,65,13,87,67);
Insert into Students_Marks values(5,12,65,12,76,13,87,67);
Insert into Students_Marks values(6,13,26,12,87,13,87,67);
Select *From Students_Marks;

```

St_Id	Sem_Id	Course_cod1	Course1_mar	Course_cod2	Course2_mar	Course_cod3	Course3_Mar	percen_Marks
1	4	11	46	12	65	13	87	67
2	5	12	65	12	76	13	87	67
3	6	13	26	12	87	13	87	67

Result\_anaylsis

```
Insert into Result_Analysis values(12,98,4);
Insert into Result_Analysis values(13,54,6);
Insert into Result_Analysis values(11,76,5);
Select *From Result_Analysis;
```

182 %

Results Messages

	Course_Code	Pass_Percent	Staff_Id
1	12	98	4
2	13	54	6
3	11	76	5

5.

```
Create Table Placement_Students(St_Id int primary key Not null,
                                St_Name Varchar(30) not null,
                                St_Dept_Id int not null,
                                St_Marks int not null);

insert into Placement_Students values (3, 'Suresh', 112,74);

Select *from Placement_Students
```

0 %

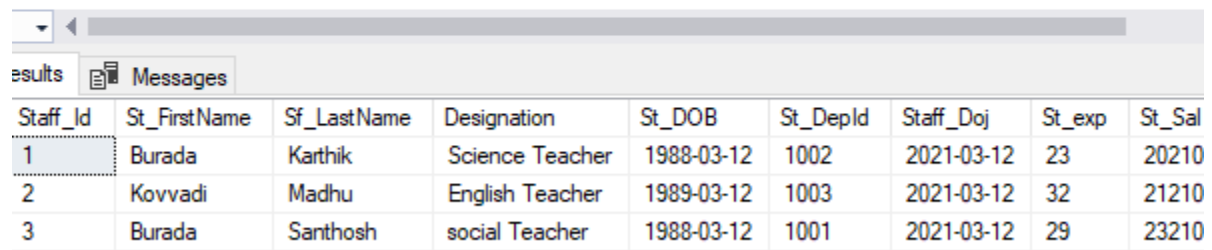
Results Messages

	St_Id	St_Name	St_Dept_Id	St_Marks
1	3	Suresh	112	74

6.

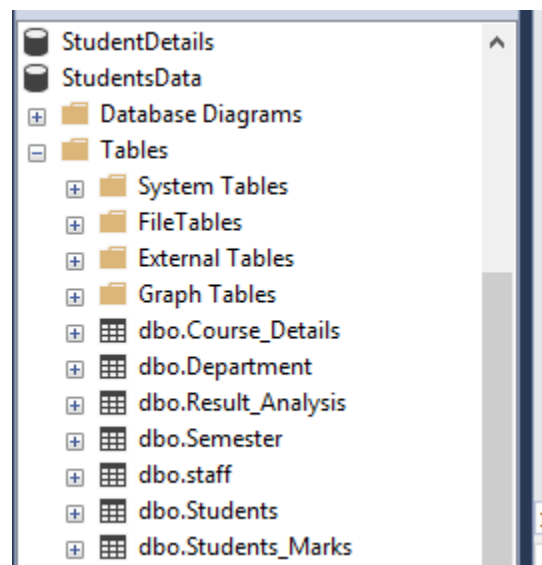
```
Exec Sp_rename 'STAFF', 'FACULTY';
```

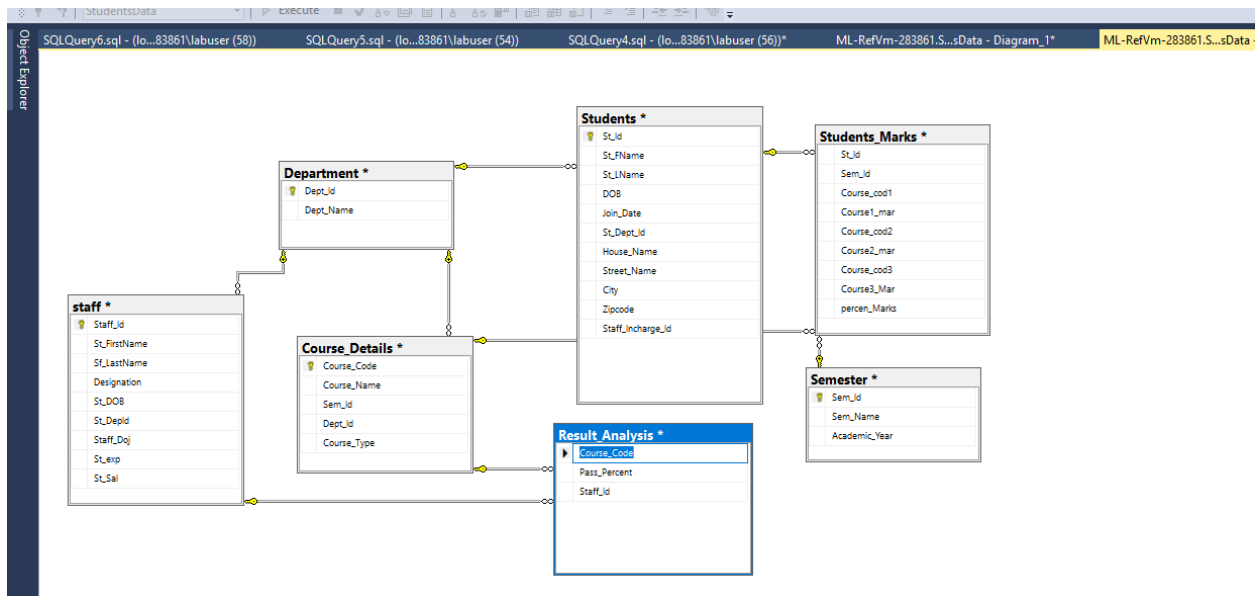
```
Select *from faculty;
```



Staff_Id	St_FirstName	Sf_LastName	Designation	St_DOB	St_DepId	Staff_DoJ	St_exp	St_Sal
1	Burada	Karthik	Science Teacher	1988-03-12	1002	2021-03-12	23	20210
2	Kovvadi	Madhu	English Teacher	1989-03-12	1003	2021-03-12	32	21210
3	Burada	Santhosh	social Teacher	1988-03-12	1001	2021-03-12	29	23210

7.





### Assignment-3

1.

```
Select *From department;
```

182 %

Results Messages

Dept_Id	Dept_Name
---------	-----------

```
Insert into Department values(1001, 'Stats');  
Insert into Department values(1002, 'Maths');  
Insert into Department values(1003, 'Computer');
```

182 %  
Messages

(1 row affected)

(1 row affected)

(1 row affected)

Completion time: 2022-04-03T17:37:19.8557596+00:00

```
Select *From department;
```

182 %

Results Messages

	Dept_Id	Dept_Name
1	1001	Stats
2	1002	Maths
3	1003	Computer



Semister

```
Select *From Semester;
```

182 %



Results



Messages

Sem\_Id

Sem\_Name

Academic\_Year

SQLQuery2.sql - (10...03001) (abuser (24))

Select \*From Semester

100 %

Results Messages

	Sem_Id	Sem_Name	Academic_Year
1	4	Odd	2021
2	5	Even	2021
3	6	Even	2022
4	7	Odd	2022

## Staff

```

Insert into Staff values( 'Burada','Karthik','Science Teacher','1988-03-12',1002,'2021-03-12',23,20210)
Insert into Staff values( 'Kovvadi','Madhu','English Teacher','1989-03-12',1003,'2021-03-12',32,21210)
Insert into Staff values( 'Burada','Santhosh','social Teacher','1988-03-12',1001,'2021-03-12',29,23210)

Select *From Staff;

```

2 %

Results Messages

	Staff_Id	St_FirstName	Sf_LastName	Designation	St_DOB	St_Depld	Staff_Dej	St_exp	St_Sal
1	1	Burada	Karthik	Science Teacher	1988-03-12	1002	2021-03-12	23	20210
2	2	Kovvadi	Madhu	English Teacher	1989-03-12	1003	2021-03-12	32	21210
3	3	Burada	Santhosh	social Teacher	1988-03-12	1001	2021-03-12	29	23210

## Students

```

Insert into Students values( 'Burada1','Karthik1','1990-03-12','2021-03-12',1001,
'Sri Sai Nilayam','Balaji Nagar','Hyderabad','500013',1);
Insert into Students values( 'Burada1','Vasau','1991-03-12','2021-03-20',1003,
'Sri Nilayam','Balajipur','Hyderabad','500013',3);
Insert into Students values( 'Valurouth','Karthik','1990-08-12','2022-03-12',1002,
'Sai Nilayam','Indira Nagar','Hyderabad','500013',2);
Select *From Students;

```

St_Id	St_FName	St_LName	DOB	Join_Date	St_Dept_Id	House_Name	Street_Name	City	Zipcode	Staff_Incharge_Id
2	Burada1	Karthik1	1990-03-12	2021-03-12	1001	Sri Sai Nilayam	Balaji Nagar	Hyderabad	500013	1
3	Burada1	Vasau	1991-03-12	2021-03-20	1003	Sri Nilayam	Balajipur	Hyderabad	500013	3
4	Valurouth	Karthik	1990-08-12	2022-03-12	1002	Sai Nilayam	Indira Nagar	Hyderabad	500013	2

3

### Course\_details

```

Insert into Course_Details values(11,'BSc',5,1001,'Regular');
Insert into Course_Details values(12,'BA',4,1003,'Part time');
Insert into Course_Details values(13,'BCom',6,1002,'Regular');
Select *From Course_Details;

```

Course_Code	Course_Name	Sem_Id	Dept_Id	Course_Type
11	BSc	5	1001	Regular
12	BA	4	1003	Part time
13	BCom	6	1002	Regular

4

### Student\_marks

```

Insert into Students_Marks values(4,11,46,12,65,13,87,67);
Insert into Students_Marks values(5,12,65,12,76,13,87,67);
Insert into Students_Marks values(6,13,26,12,87,13,87,67);
Select *From Students_Marks;

```

St_Id	Sem_Id	Course_cod1	Course1_mar	Course_cod2	Course2_mar	Course_cod3	Course3_Mar	percen_Marks
1	4	11	46	12	65	13	87	67
2	5	12	65	12	76	13	87	67
3	6	13	26	12	87	13	87	67

Result\_anaylsis

```
Insert into Result_Analysis values(12,98,4);
Insert into Result_Analysis values(13,54,6);
Insert into Result_Analysis values(11,76,5);
Select *From Result_Analysis;
```

182 %

Results Messages

	Course_Code	Pass_Percent	Staff_Id
1	12	98	4
2	13	54	6
3	11	76	5

5.

```
Create Table Placement_Students(St_Id int primary key Not null,
                                St_Name Varchar(30) not null,
                                St_Dept_Id int not null,
                                St_Marks int not null);

insert into Placement_Students values (3, 'Suresh', 112,74);

Select *from Placement_Students
```

0 %

Results Messages

	St_Id	St_Name	St_Dept_Id	St_Marks
1	3	Suresh	112	74

6.

```
Exec Sp_rename 'STAFF', 'FACULTY';
```

```
Select *from faculty;
```

Staff_Id	St_FirstName	Sf_LastName	Designation	St_DOB	St_DepId	Staff_DoJ	St_exp	St_Sal
1	Burada	Karthik	Science Teacher	1988-03-12	1002	2021-03-12	23	20210
2	Kovvadi	Madhu	English Teacher	1989-03-12	1003	2021-03-12	32	21210
3	Burada	Santhosh	social Teacher	1988-03-12	1001	2021-03-12	29	23210

7.

```
drop table Placement_Students;
```

```
Select *from placement_students;
```

0 %
Messages
Msg 208, Level 16, State 1, Line 12 Invalid object name 'placement_students'.
Completion time: 2022-04-04T03:33:14.6119026+00:00

8.

```
Select * from Placement_students;
```

% ▾				
Results Messages				
St_Id	St_Name	St_Dept_Id	St_Marks	
3	Suresh	112	74	
4	Shiva	114	80	
5	Rohith	116	87	

9.

```
update students_Marks set [percentage_Marks]= (  
  Coalesce (course_1marks,0) +  
  Coalesce (course_2marks,0) +  
  Coalesce (course_3marks,0)  
);  
select  
  (  
    coalesce(Course_1Marks ,0,1) +  
    coalesce(Course_2Marks ,0,1) +  
    coalesce(Course_3Marks ,0,1)  
  )  
;
```

10.

```

Alter table Course_Details Add Staff_Id integer , Foreign key(Staff_Id) References Staff(Staff_Id);
--Select * from course_details;

update course_details
set staff_id = 1001
where course_code = 11;

update course_details
set staff_id = 1002
where course_code = 12;

update course_details
set staff_id = 1010
where course_code = 13;

Select * from course_details;

```

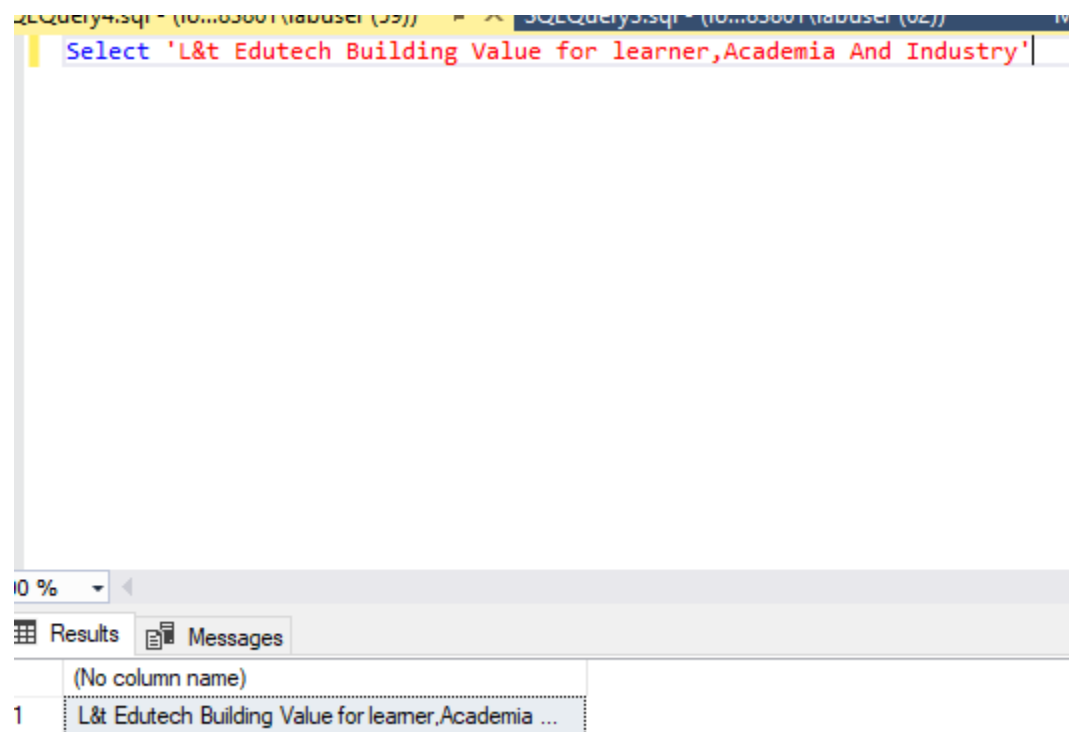
00 %

Results Messages

	Course_Code	Course_Name	Sem_Id	Dept_Id	Course_Type	Staff_Id
1	11	BSc	5	1001	Regular	1001
2	12	BA	4	1003	Part time	1002
3	13	BCom	6	1002	Regular	1010

#### Assignment-4

1.



2.



```

Select 'L&t Edutech Building Value for learner,Academia And Industry'
Select Lower ('I Am a Successful Man')

```

00 %

Results Messages

	(No column name)
1	i am a successful man

3.

```

Select 'L&t Edutech Building Value for learner,Academia And Industry'
Select Lower ('I Am a Successful Man')
Select *From Students Order by St_Fname desc;

```

1 %

Results Messages

St_Id	St_FName	St_LName	DOB	Join_Date	St_Dept_Id	House_Name	Street_Name	City	Zipcode	Staff_Incharge_Id
4	Valurouth	Karthik	1990-08-12	2022-03-12	1002	Sai Nilayam	Indira Nagar	Hyderabad	500013	2
2	Burada1	Karthik1	1990-03-12	2021-03-12	1001	Sri Sai Nilayam	Balaji Nagar	Hyderabad	500013	1
3	Burada1	Vasau	1991-03-12	2021-03-20	1003	Sri Nilayam	Balajipur	Hyderabad	500013	3

4.

```
Select *From Course_Details Order by Course_Name desc;
```

% ▾

Results Messages

Course_Code	Course_Name	Sem_Id	Dept_Id	Course_Type	Staff_Id
11	BSc	5	1001	Regular	1001
13	BCom	6	1002	Regular	1010
12	BA	4	1003	Part time	1002

5.

```
Select SUBSTRING(ST_FName,1,3) From Students;
```

▾

Results Messages

(No column name)
Bur
Bur
Val

6.

```
select Distinct (Course_Name) From Course_Details;
```

100 %

Results Messages

	Course_Name
1	BA
2	BCom
3	BSc

7.

```
(SELECT COUNT(S.ST_ID), DEPT_NAME  
FROM STUDENT_MARKS SM, DEPARTMENT D,  
STUDENTS S  
WHERE SM.ST_ID=S.ST_ID  
AND S.ST_DEPT_ID=D.DEPT_ID  
AND SM.[PERCENTAGE_MARKS] >70  
GROUP BY D.DEPT_NAME)
```

100 %

Results Messages

	(No column name)	DEPT_NAME
1	1	Computer Science
2	1	Maths
3	1	Physics

8.

SQLQuery3.sql - (10...03001) (tabuser (03))

SQLQuery4.sql - (10...03001) (tabuser (03))

```
Select St_Id ,House_Name , Street_Name, City, Zipcode From students
```

.00 %

Results Messages

	St_Id	House_Name	Street_Name	City	Zipcode
1	2	Sri Sai Nilayam	Balaji Nagar	Hyderabad	500013
2	3	Sri Nilayam	Balajipur	Hyderabad	500013
3	4	Sai Nilayam	Indira Nagar	Hyderabad	500013

9.

```

Select St_Id ,House_Name , Street_Name, City, Zipcode From students

Select *From Faculty Where Sf_LastName Like '%e%';

```

100 %

Results Messages

Staff_Id	St_FirstName	Sf_LastName	Designation	St_DOB	St_Depld	Staff_DoJ	St_exp	St_Sal
----------	--------------	-------------	-------------	--------	----------	-----------	--------	--------

10.

```

Select *From FACULTY;
Update FACULTY set St_Sal =55000 where St_Sal =20210;

```

Results Messages

Staff_Id	St_FirstName	Sf_LastName	Designation	St_DOB	St_Depld	Staff_DoJ	St_exp	St_Sal
1	Burada	Karthik	Science Teacher	1988-03-12	1002	2021-03-12	23	55000

11.

```
SELECT COUNT(ST_ID), ACADEMIC_YEAR
FROM STUDENT_MARKS SM
INNER JOIN SEMESTER S
ON S.SEM_ID = SM.SEM_ID
GROUP BY S.ACADEMIC_YEAR;
```

100 %

Results Messages

	(No column name)	ACADEMIC_YEAR
1	1	2018-2019
2	1	2019-2020
3	1	2021-2022

12.

```
Select *From FACULTY;
Update FACULTY set St_Sal =55000 where St_Sal =20210;
Select*from Students where St_Id % 2= 0;
```

00 %

Results Messages

	St_Id	St_FName	St_LName	DOB	Join_Date	St_Dept_Id	House_Name	Street_Name	City	Zipcode	Staff_Incharge_Id
1	2	Burada1	Karthik1	1990-03-12	2021-03-12	1001	Sri Sai Nilayam	Balaji Nagar	Hyderabad	500013	1
2	4	Valurouth	Karthik	1990-08-12	2022-03-12	1002	Sai Nilayam	Indira Nagar	Hyderabad	500013	2

Assignment-5

1.

```
CREATE PROCEDURE findTotalMarks(  
    @S_id varchar (30)  
)  
AS  
BEGIN  
    SELECT ST_ID,  
    (  
        COALESCE (COURSE_1MARKS, 0)  
        + COALESCE(COURSE_2MARKS, 0)  
        + COALESCE(COURSE_3MARKS, 0)  
    )  
    TOTAL_MARKS  
    FROM STUDENT_MARKS  
    WHERE ST_ID= @s_id;  
END;  
EXEC findTotalMarks @s_id = '9101'
```

0 %  
Results  
Commands completed successfully.

2.

```
CREATE PROCEDURE [dbo].[findStudent](@reg_no int, @name varchar output)  
AS  
BEGIN  
    SELECT ST_FNAME  
    FROM STUDENTS WHERE ST_ID=@reg_no;  
END  
GO
```

100 %  
Messages  
Commands completed successfully.

```
DECLARE  
    @return_value int,  
    @name varchar(1)  
EXEC @return_value = [dbo].[findStudent]  
    @reg_no = 9104,  
    @name = @name OUTPUT
```

100 %  
Results Messages

ST\_FNAME

3.

```
CREATE procedure insertStudents
(@regno int, @FNAME nvarchar(30), @LNAME nvarchar(30), @DOB date, @DOJ date, @DEPT_ID int, @vila_name nvarchar(30), @st_name nvarchar(30),
@city nvarchar(20), @pincode int, @faculty_id nvarchar(50))
as
begin
IF NOT EXISTS (SELECT 1 FROM STUDENTS WHERE ST_ID = @regno) insert into STUDENTS
(ST_ID,
ST_FNAME,
ST_LNAME,
DOB,
JOIN_DATE,
ST_DEPT_ID,
HOUSE_NAME,
STREET_NAME,
CITY,
ZIPCODE,
STAFF_INCHARGE_ID)
values
(@regno,
@FNAME,
@LNAME,
@DOB,
@DOJ,
@DEPT_ID,
@vila_name,
@st_name,
@city,
@pincode,
@faculty_id)
end;
```

100 %  
Results  
Commands completed successfully.

Zoom

4.

```
CREATE FUNCTION studentHavingMaxMark()
RETURNS TABLE
AS
RETURN (SELECT SM.ST_ID,S.ST_FNAME,D.DEPT_NAME FROM STUDENT_MARKS SM
INNER JOIN STUDENTS S
ON S.ST_ID=SM.ST_ID
INNER JOIN DEPARTMENT D
ON S.ST_DEPT_ID=D.DEPT_ID
WHERE SM.[PERCENTAGE_MARKS]= (SELECT MAX( [PERCENTAGE_MARKS]) FROM
STUDENTS MARKS))
```

100 %  
Results  
Commands completed successfully.

5.



```
CREATE FUNCTION [dbo].[MARKGRADE]
(
    @marks INT
)
RETURNS VARCHAR(20)
AS
BEGIN
    DECLARE @GRADE VARCHAR (50)
    IF @marks > 100
    SET @GRADE = 'EXCEPTIONAL'
    ELSE
    RETURN
CASE
    WHEN @marks >= 90 THEN 'S'
    WHEN @marks >= 80 THEN 'A'
    WHEN @marks >= 70 THEN 'B'
    WHEN @marks >= 60 THEN 'C'
    WHEN @marks >= 50 THEN 'D'
    WHEN @marks < 50 THEN 'U'
    ELSE 0
    END
    RETURN @GRADE
END;
```

100 %

Messages

Commands completed successfully.

Completion time: 2022-04-03T13:57:14.6111961+00:00

100 %

Query executed successfully. ML-RefVm-283861 (15.0 RTM) ML-RefVm-283861\labuse... School\_Bavatharani 00:00:00 0 rows