Assignment 5  
201001001013

1. Drop and create Student and Department tables. Don’t create Primary key, unique key or foreign key constraints on the tables now.

DROP TABLE STUDENT;

DROP TABLE DEPARTMENT;

2. Create clustered index on studentId column of Student table

CREATE CLUSTERED INDEX cls\_stu on student(student\_id);

3. Create unique clustered index on deptId column of Department table

CREATE UNIQUE CLUSTERED INDEX cls\_dep on department(deptid);

4. Create a nonclustered index on name, address columns of Student table only for the students whose address is Kolkata.

CREATE NONCLUSTERED INDEX ncls\_stu ON student(stu\_name asc,stu\_address asc)

WHERE stu\_address = 'KOLKATA';

5. Drop and recreate the nonclustered index. Email and phone columns should be added as included columns.

drop index ncls\_stu on student;

CREATE NONCLUSTERED INDEX ncls\_stu ON student(stu\_name asc,stu\_address asc)

include(email,phone)

WHERE stu\_address = 'KOLKATA';

6. Insert 10 records in Student table and 4 records in Department table.

INSERT INTO STUDENT

VALUES('101', 'Shivam', 'Kolkata', '9900990099', 'shivam@gmail.com', '2001-06-13', '2020-07-21', '2024-06-20', 'Kolkata', '1001', '1200', '10111', '410');

INSERT INTO STUDENT

VALUES('102', 'Rishav', 'Gaya', '9900990099', 'rishav@gmail.com', '2002-03-11', '2020-07-21', '2024-06-20', 'Kolkata', '1002', '1210', '15310', '210');

INSERT INTO STUDENT

VALUES('103', 'Satyam', 'Newtown', '9900990099', 'satyam@gmail.com', '2002-06-19', '2020-07-21', '2024-06-20', 'Kolkata', '1001', '1200', '10111', '115');

INSERT INTO STUDENT

VALUES('104', 'Sameer', 'Kolkata', '9900990099', 'sameer@gmail.com', '2001-09-03', '2020-07-21', '2024-06-20', 'Kolkata', '1006', '1240', '10310', '315');

INSERT INTO STUDENT

VALUES('121', 'Rahul', 'Kolkata', '9900990099', 'rahul@gmail.com', '2002-11-16', '2020-07-21', '2024-06-20', 'Kolkata', '1001', '1200', '10410', '410');

INSERT INTO STUDENT

VALUES('124', 'Raunak', 'Patna', '9900990099', 'raunak@gmail.com', '2001-05-23', '2020-07-21', '2024-06-20', 'Kolkata', '1002', '1210', '15310', '410');

INSERT INTO STUDENT

VALUES('132', 'Rajeev', 'DumDum', '9900990099', 'rajeev@gmail.com', '2002-07-29', '2020-07-21', '2024-06-20', 'Kolkata', '1001', '1200', '10410', '115');

INSERT INTO STUDENT

VALUES('139', 'Shorab', 'Park Street', '9900990099', 'shorab@gmail.com', '2002-10-09', '2020-07-21', '2024-06-20', 'Kolkata', '1001', '1200', '10111', '115');

INSERT INTO STUDENT

VALUES('153', 'Aditya', 'Kolkata', '9900990099', 'aditya@gmail.com', '2001-06-20', '2020-07-21', '2024-06-20', 'Kolkata', '1006', '1240', '10310', '410');

INSERT INTO STUDENT

VALUES('158', 'Ayush', 'Howrah', '9900990099', 'ayush@gmail.com', '2001-12-07', '2020-07-21', '2024-06-20', 'Kolkata', '1001', '1200', '10410', '410');

INSERT INTO DEPARTMENT

VALUES('1001', 'CSE');

INSERT INTO DEPARTMENT

VALUES('1002', 'EE');

INSERT INTO DEPARTMENT

VALUES('1006', 'CE');

INSERT INTO DEPARTMENT

VALUES('1029', 'ME');

7. Create a view named vStudentDept to retrieve student id, studentname and

departname by joining both the tables. WITH SCHEMABINDING option should be

added.

create view vStudentDept with schemabinding

as select student\_id, stu\_name, deptname

from dbo.student inner join dbo.DEPARTMENT

on student.DeptId = DEPARTMENT.DeptId

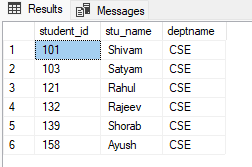
go

8. Retrieve Studentname and departname from vStudentDept view only for CSE

department.

select \* from vStudentDept

where DeptName = 'cse';



9. Create a unique clustered index on student id column of vStudentDept view.

CREATE UNIQUE CLUSTERED INDEX cls\_studep on vStudentDept(student\_id);

10. Create a nonclustered index on departname column of vStudentDept view

CREATE NONCLUSTERED INDEX ncls\_studept ON vStudentDept (DeptName);

