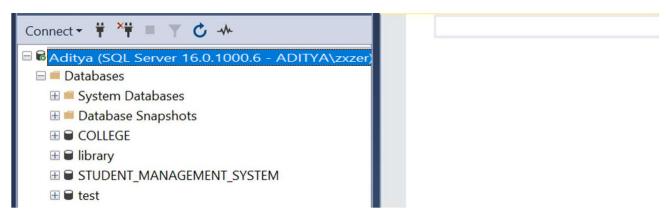
Lab-1: Use of Single Table

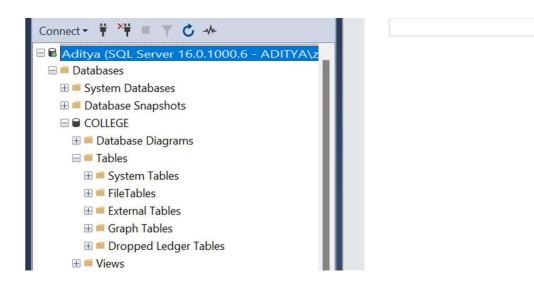
1. Creating Database:

Query: CREATE DATABASE College;



2. Creating Table:

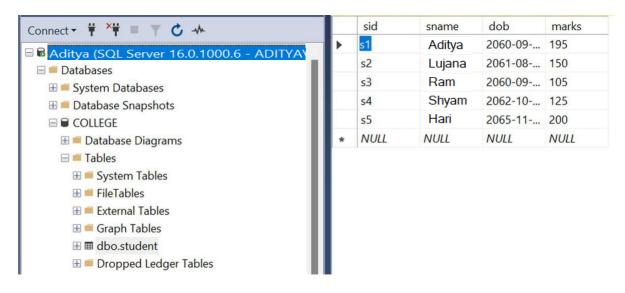
Query: CREATE TABLE Student (Sid VARCHAR (5) PRIMARY KEY, sname VARCHAR (20), dob DATE, marks INT);



3. Data Insertion Through Query:

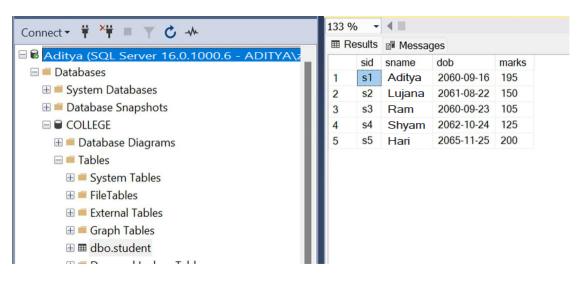
Query: VALUES ('s1', Aditya,'2060-09-16',195), ('s2', Lujana,'2061-08-22',150), ('s3', Ram,'2060-09-23',105), ('s4', Shyam,'2062-10-24',125), ('s5', Hari,'2065-11-25',200);

Data Insertion Through GUI:



4. Display Complete Table:

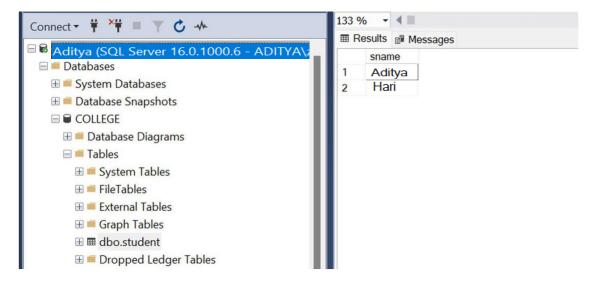
Query: SELECT * FROM student;



5. Display Selected Data:

Query: SELECT sname

FROM student WHERE marks > 150;

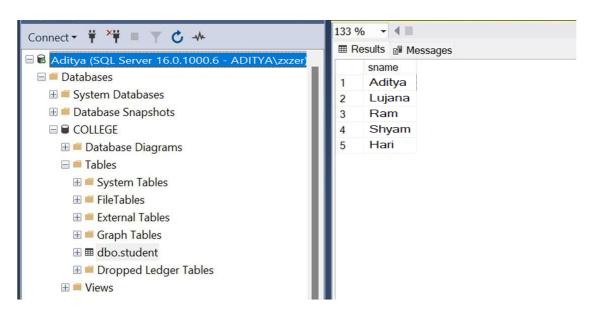


6.Display name of all students of marks not equal to 200 or of dob less than '2070-01-01'.

Query: SELECT sname

FROM student

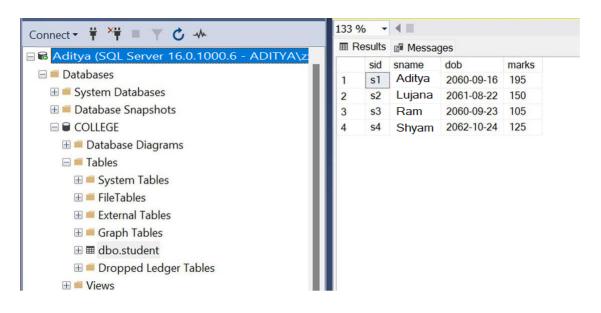
WHERE marks < > 200 OR dob < '2070-01-01';



7. Display all students of marks equal to 190 or 200 or 180 or 220 or 199.

Query: SELECT *
FROM student
WHERE marks IN (190,200,180,220,199);
Or
SELECT *
FROM student

WHERE marks =190 OR marks=200 OR marks=180 OR marks=220 OR marks=199;



8.Display all students of marks not equal to 190 or 200 or 180 or 220 or 199.

Query: SELECT *

FROM student

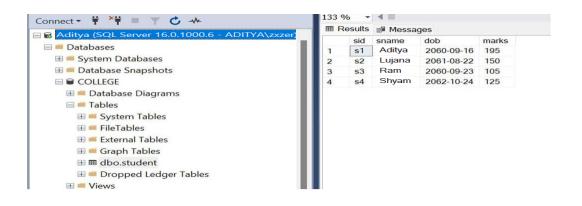
WHERE marks NOT

IN(190,200,180,220,199); Or

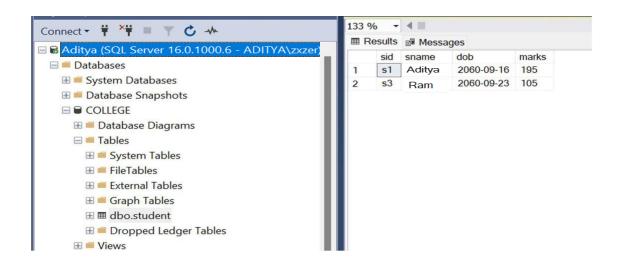
SELECT *

FROM student

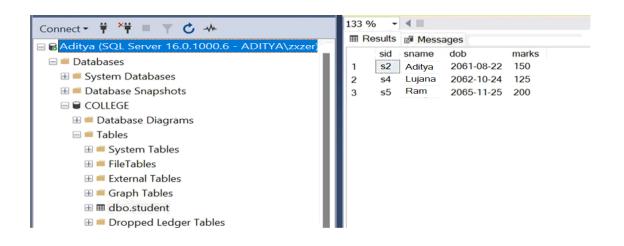
WHERE marks < > 190 AND marks < > 200 AND marks < > 180 AND marks < > 220 AND marks < > 199.



9. Display all students of dob between '2050-01-01' and '2061-01-01'.

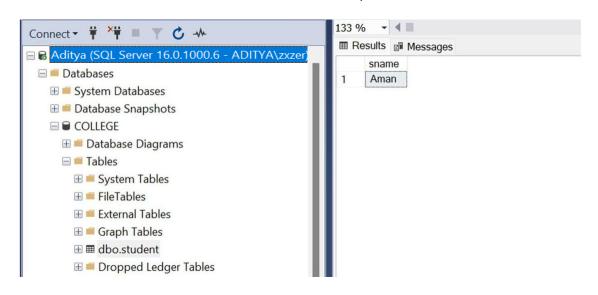


10. Display all students of dob not between '2050-01-01' and '2061-01-01'.



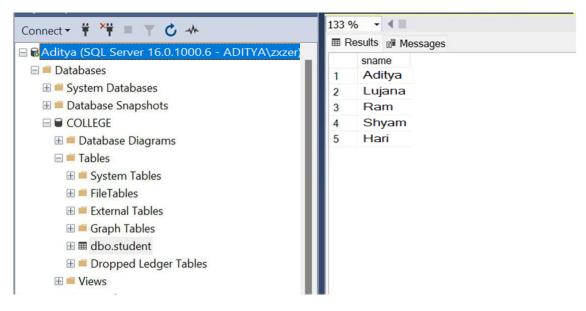
11. Display name of all students whose marks is Null and Not Null.

Query for Null: SELECT sname FROM student WHERE marks IS NULL;



Query for Not Null: SELECT sname FROM student

WHERE marks IS NOT NULL;

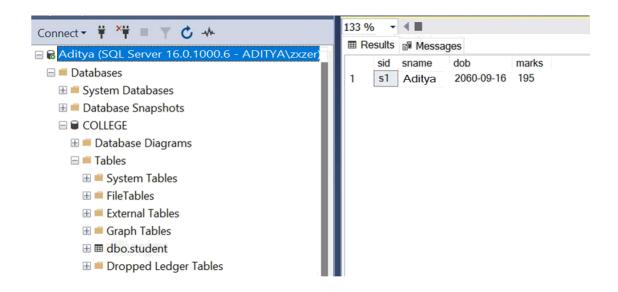


12. Display records of all students whose name contains 'u' as substring and dob is less than '2065-01-05'.

Query: SELECT *

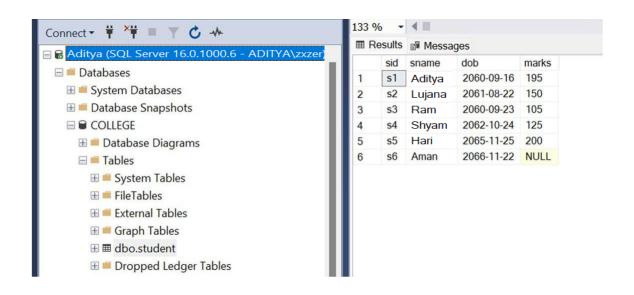
FROM Student

WHERE sname LIKE '%u%' AND dob < '2065-01-05';



13. Display records of all students whose name length is not equal to 5.

Query: SELECT *
FROM student
WHERE sname NOT LIKE '_____';

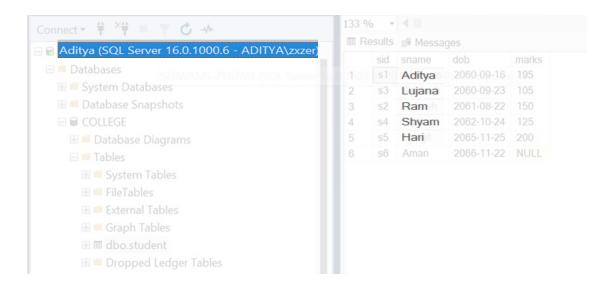


14. Display records of all students in ascending order of their dob.

Query: SELECT *

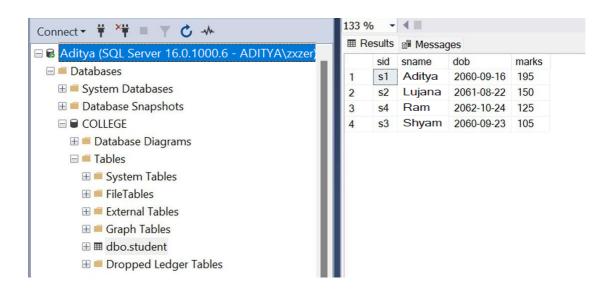
FROM student

ORDER by dob ASC;



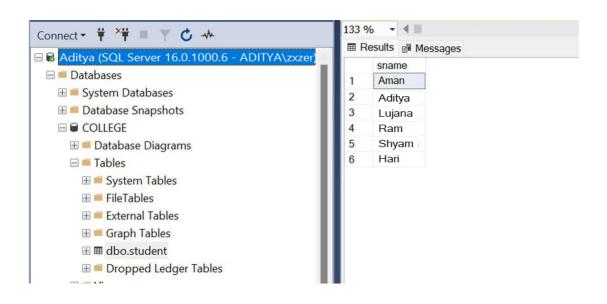
15. Display records of all students of marks less than 200 and arrange the data in descending order of their marks.

Query: SELECT *
FROM STUDENT
WHERE marks < 200
ORDER by marks DESC;



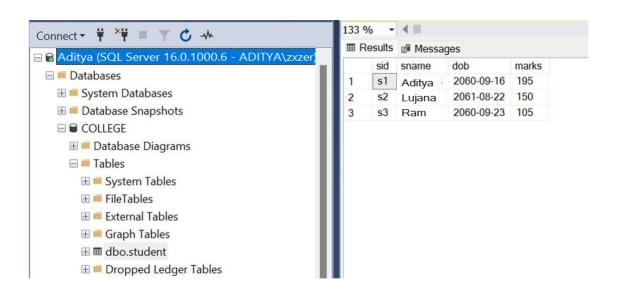
16. Display records of all students by displaying unique names.

Query: SELECT DISTINCT (sname) FROM student:



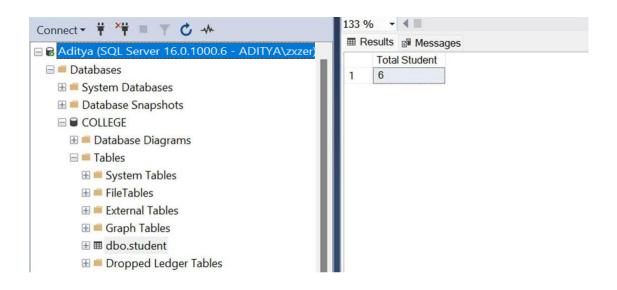
17. Display top 3 records of student.

Query: Select TOP (3) *
From student:



18. Find total no of students.

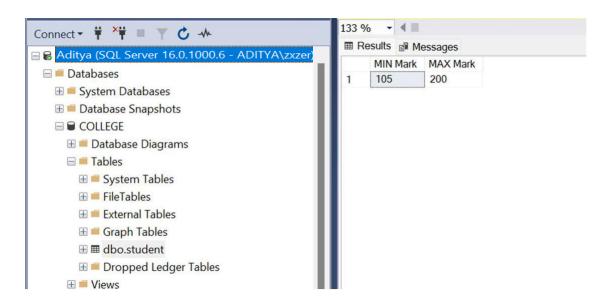
Query: SELECT COUNT (*) AS 'Total Student' FROM student;



19. Find maximum and minimum marks of students.

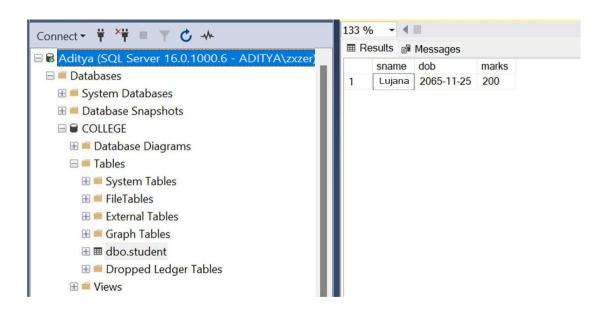
Query:

SELECT MIN (marks) AS 'MIN Mark', MAX (marks) AS 'MAX Mark' FROM student;



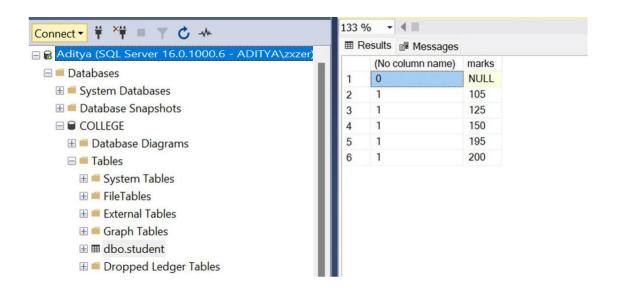
20. Find name and dob of those students who get maximum marks.

Query: SELECT sname, dob, marks
FROM student
WHERE marks IN (SELECT MAX (marks)
FROM student);



21. Display no of student with same Marks.

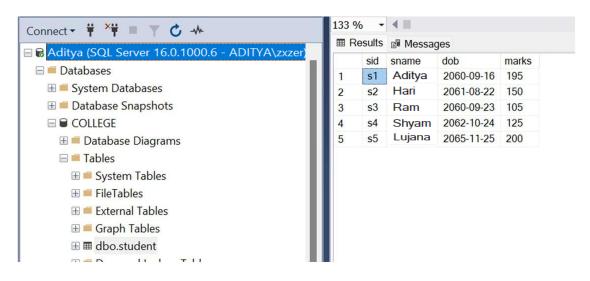
Query: SELECT COUNT (marks), marks FROM student GROUP BY (marks);



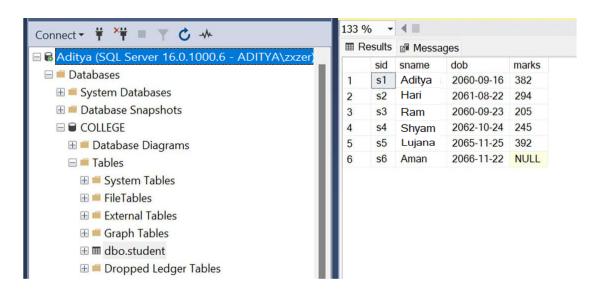
22. Increase marks of all student by 40% of name start with 's'

Query: UPDATE student SET marks = marks + marks *0.4 WHERE sname LIKE 'S%';

Before Update:



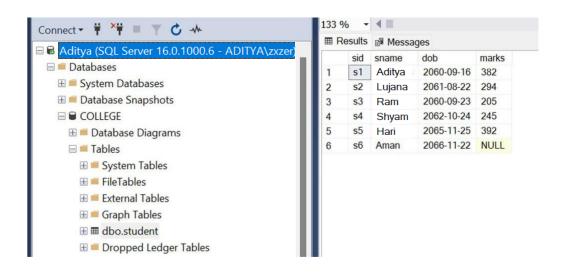
After Update:



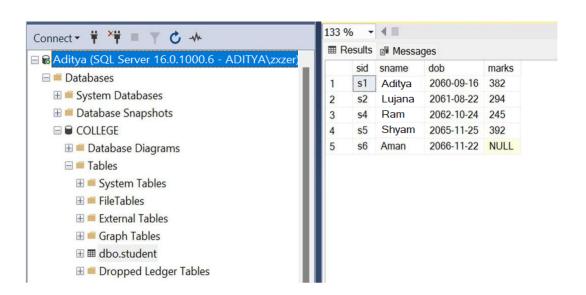
23. Delete record of all student with marks less than 220.

Query: DELETE FROM student WHERE (marks) < 220;

Before:

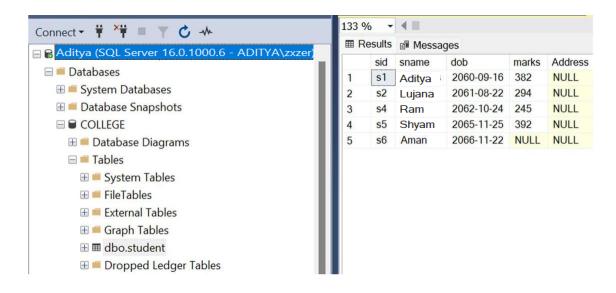


After:



24. Insert new attribute address to the student table.

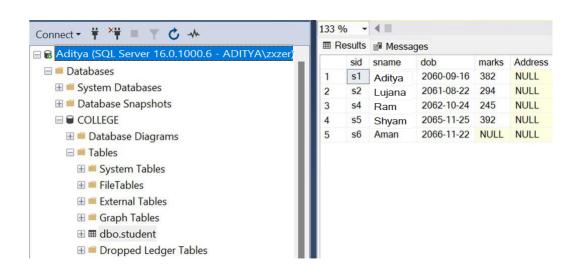
Query: ALTER TABLE student ADD Address VARCHAR (20);



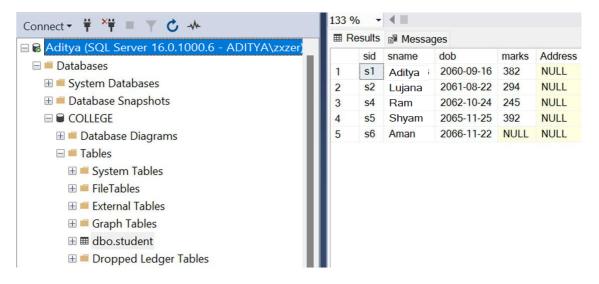
25. Remove address attribute from student table.

Query: ALTER TABLE student DROP COLUMN Address;

Before:



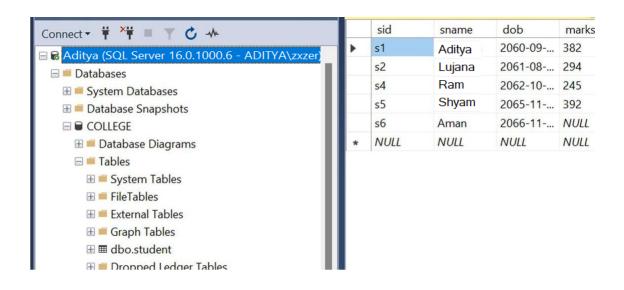
After:



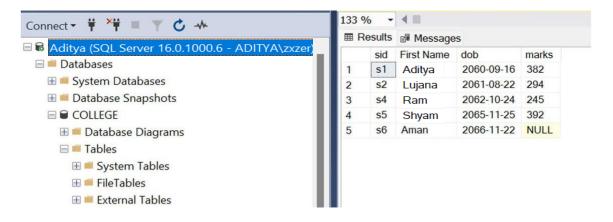
27. Rename the sname attribute to 'First Name'.

Query: EXEC sp_rename 'student. sname', 'First Name';

Before:



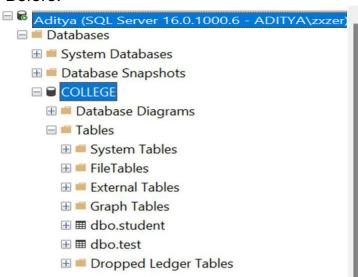
After:



28. Delete table named 'Test' from database.

Query: DROP TABLE Players;

Before:



After:

