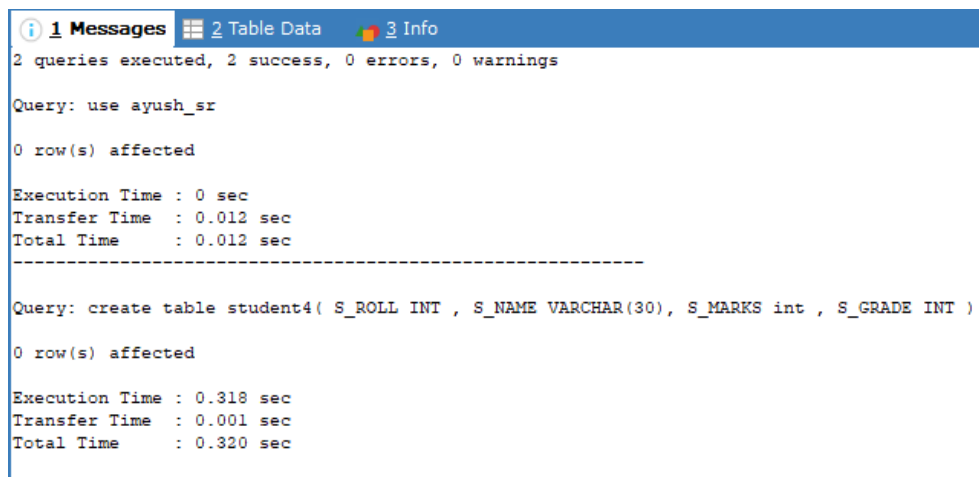LAB 3 :

1. Create task student on sql

   Source code:

   ```
   USE ayush_sr;
   CREATE TABLE student4(
   S_ROLL INT ,
   S_NAME VARCHAR(30),
   S_MARKS INT ,
   S_GRADE INT
   );
   ```

   Output:

   ```
   i 1 Messages   2 Table Data   3 Info
   2 queries executed, 2 success, 0 errors, 0 warnings

   Query: use ayush_sr

   0 row(s) affected

   Execution Time : 0 sec
   Transfer Time  : 0.012 sec
   Total Time     : 0.012 sec
   ------------------------------------------------------------

   Query: create table student4( S_ROLL INT , S_NAME VARCHAR(30), S_MARKS int , S_GRADE INT )

   0 row(s) affected

   Execution Time : 0.318 sec
   Transfer Time  : 0.001 sec
   Total Time     : 0.320 sec
   ```

INSERT INTO student4 VALUES

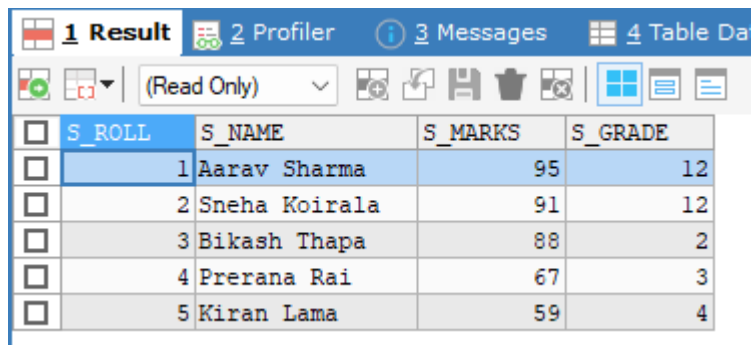(1, 'Aarav Sharma', 95, 12),

(2, 'Sneha Koirala', 91, 12),

(3, 'Bikash Thapa', 88, 2),

(4, 'Prerana Rai', 67, 3),

(5, 'Kiran Lama', 59, 4);

SELECT *FROM student4;

Output:
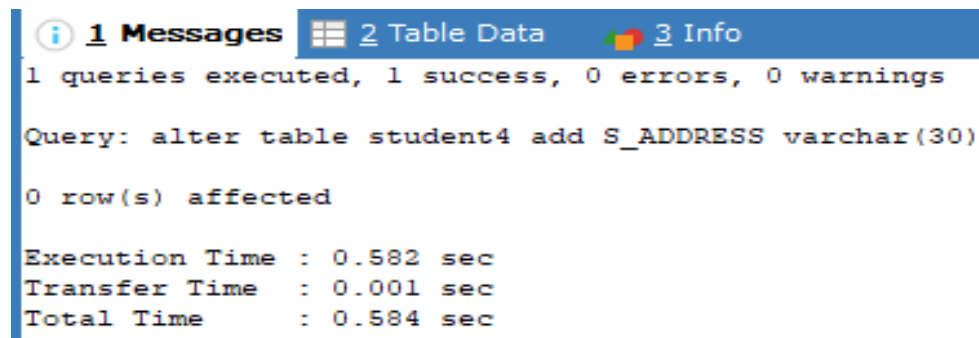
2. Add one column one existing table.

Source code:
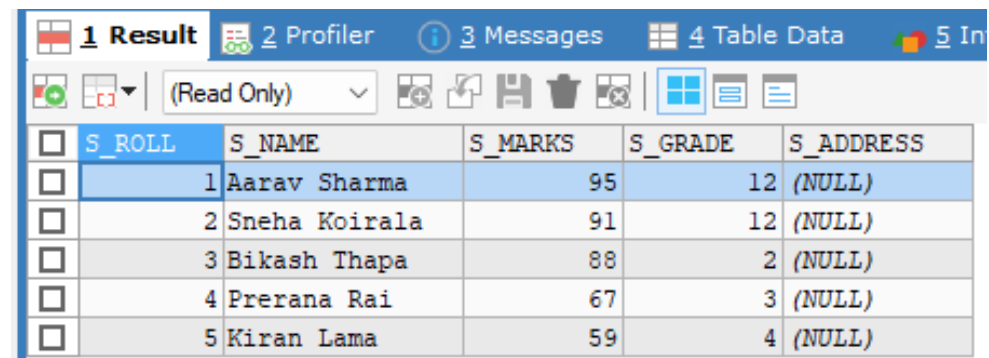
ALTER TABLE student4 ADD S_ADDRESS VARCHAR(30);

Output :

```
i  1 Messages    2 Table Data    3 Info
1 queries executed, 1 success, 0 errors, 0 warnings

Query: alter table student4 add S_ADDRESS varchar(30)

0 row(s) affected

Execution Time : 0.582 sec
Transfer Time  : 0.001 sec
Total Time     : 0.584 sec
```
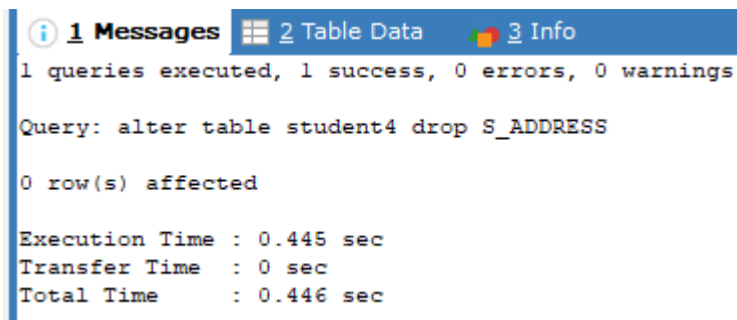
S_ROLL	S_NAME	S_MARKS	S_GRADE	S_ADDRESS
1	Aarav Sharma	95	12	(NULL)
2	Sneha Koirala	91	12	(NULL)
3	Bikash Thapa	88	2	(NULL)
4	Prerana Rai	67	3	(NULL)
5	Kiran Lama	59	4	(NULL)

3. Delete column from existing table.
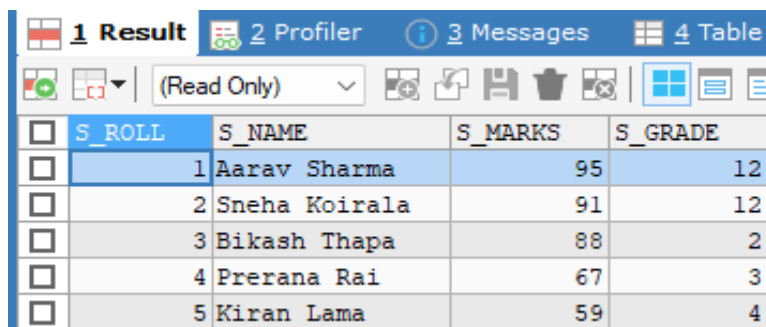
Source code:

ALTER TABLE student4 DROP S_ADDRESS;

Output:


```
1 Messages   2 Table Data    3 Info
1 queries executed, 1 success, 0 errors, 0 warnings

Query: alter table student4 drop S_ADDRESS

0 row(s) affected

Execution Time : 0.445 sec
Transfer Time  : 0 sec
Total Time     : 0.446 sec
```


S_ROLL	S_NAME	S_MARKS	S_GRADE
1	Aarav Sharma	95	12
2	Sneha Koirala	91	12
3	Bikash Thapa	88	2
4	Prerana Rai	67	3
5	Kiran Lama	59	4

4. Change datatypes of existing column.

Source code:

ALTER TABLE student4 MODIFY S_MARKS FLOAT;
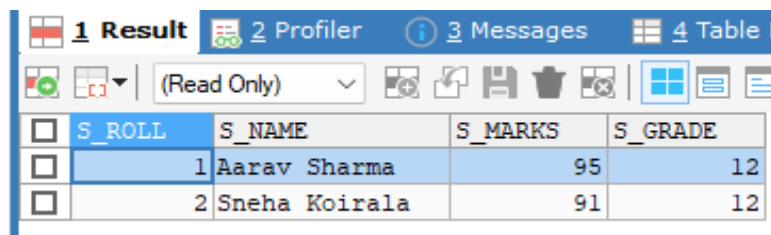
Output:

```
ⓘ 1 Messages    ▦ 2 Table Data    🔲 3 Info
1 queries executed, 1 success, 0 errors, 0 warnings

Query: ALTER TABLE student4 MODIFY S_MARKS float

5 row(s) affected

Execution Time : 0.762 sec
Transfer Time  : 0.001 sec
Total Time     : 0.764 sec
```

5. Display student records who read in grade 12 and marks above 90.

Source code:

SELECT *FROM student4 WHERE S_GRADE=12 AND S_MARKS>90;

Output:

S_ROLL	S_NAME	S_MARKS	S_GRADE
1	Aarav Sharma	95	12
2	Sneha Koirala	91	12