

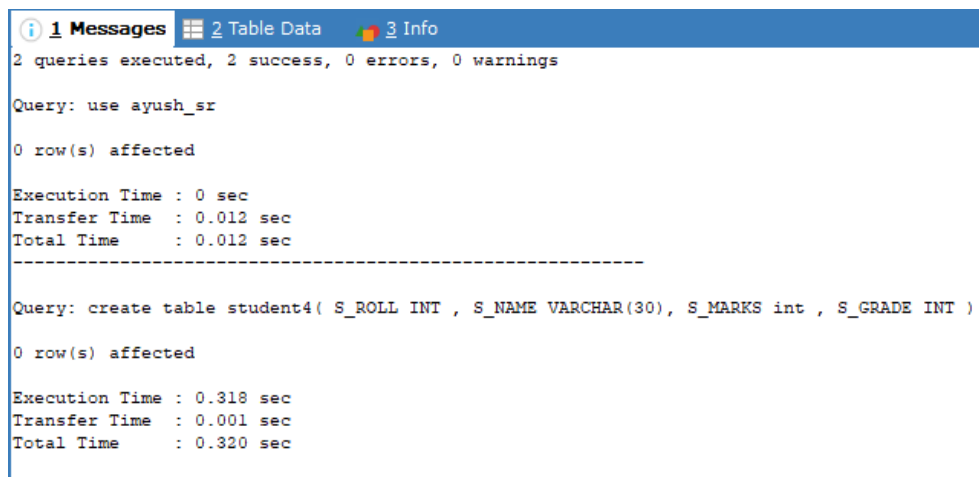
LAB 3 :

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:



The screenshot shows a SQL client interface with a blue header bar containing three tabs: '1 Messages', '2 Table Data', and '3 Info'. Below the header, a status bar indicates '2 queries executed, 2 success, 0 errors, 0 warnings'. The main area displays the execution details for two queries. The first query is 'use ayush_sr', which executed successfully with 0 rows affected and a total time of 0.012 seconds. The second query is 'create table student4(S_ROLL INT , S_NAME VARCHAR(30), S_MARKS int , S_GRADE INT)', which also executed successfully with 0 rows affected and a total time of 0.320 seconds. The output is separated by a dashed line.

```
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),

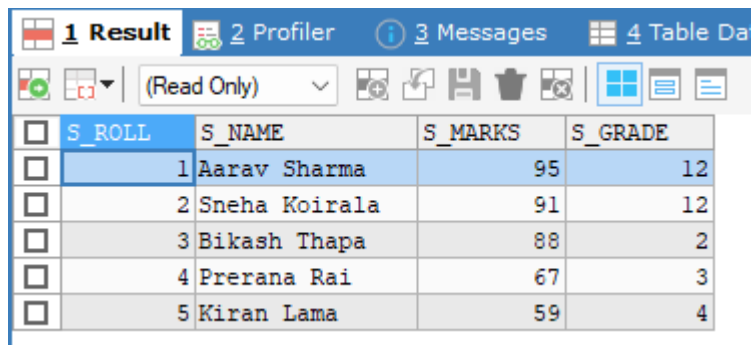
(3, 'Bikash Thapa', 88, 2),

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

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

SELECT *FROM student4;

Output:



The screenshot shows a database query result window with a toolbar and a table of results. The toolbar includes icons for saving, refreshing, and other database operations, along with a dropdown menu set to '(Read Only)'. The table has four columns: S_ROLL, S_NAME, S_MARKS, and S_GRADE. It contains five rows of data, each with a checkbox in the first column.

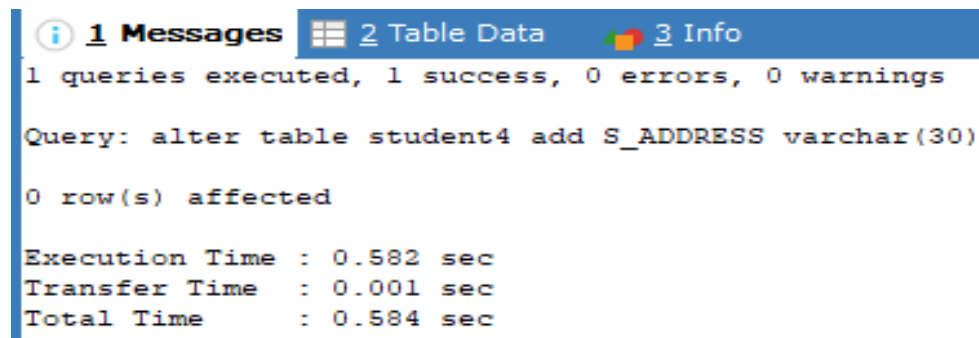
<input type="checkbox"/>	S_ROLL	S_NAME	S_MARKS	S_GRADE
<input type="checkbox"/>	1	Aarav Sharma	95	12
<input type="checkbox"/>	2	Sneha Koirala	91	12
<input type="checkbox"/>	3	Bikash Thapa	88	2
<input type="checkbox"/>	4	Prerana Rai	67	3
<input type="checkbox"/>	5	Kiran Lama	59	4

2. Add one column one existing table.

Source code:

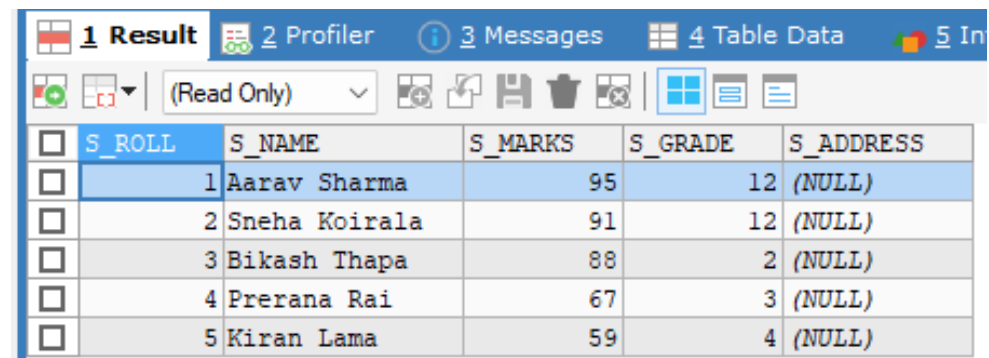
```
ALTER TABLE student4 ADD S_ADDRESS VARCHAR(30);
```

Output :



The screenshot shows the 'Messages' tab in a SQL client. It displays the following information:

- 1 Messages** (selected tab)
- 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



The screenshot shows the 'Result' tab in a SQL client, displaying the data in the 'student4' table. The table has 5 columns: S_ROLL, S_NAME, S_MARKS, S_GRADE, and S_ADDRESS. The data is as follows:

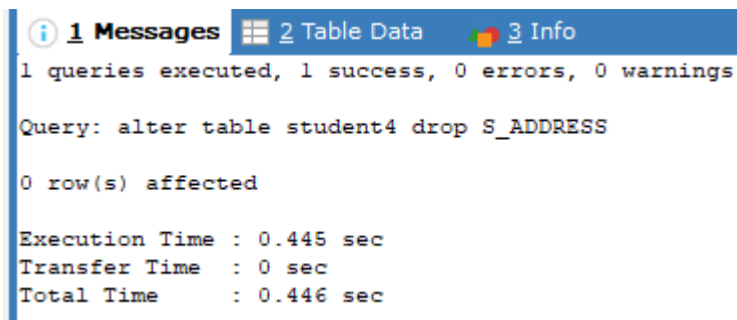
S_ROLL	S_NAME	S_MARKS	S_GRADE	S_ADDRESS
1	Aarav Sharma	95	12	(NULL)
2	Sneha Koirala	91	12	(NULL)
3	Bikash Thapa	88	2	(NULL)
4	Prerana Rai	67	3	(NULL)
5	Kiran Lama	59	4	(NULL)

3. Delete column from existing table.

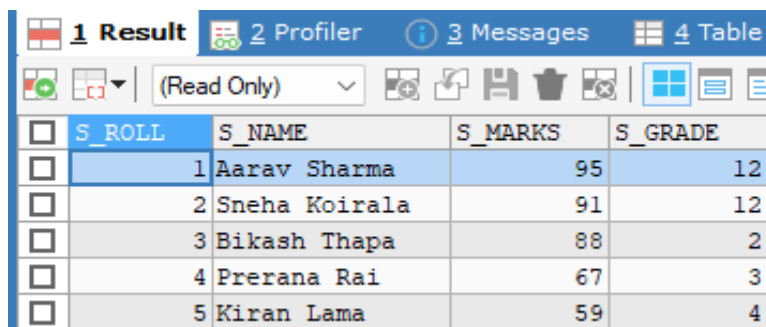
Source code:

```
ALTER TABLE student4 DROP S_ADDRESS;
```

Output:

A screenshot of a SQL client's Messages window. The window has a blue header bar with three tabs: '1 Messages' (selected), '2 Table Data', and '3 Info'. Below the header, the text reads: '1 queries executed, 1 success, 0 errors, 0 warnings'. The query being executed is 'Query: alter table student4 drop S_ADDRESS'. Below the query, it says '0 row(s) affected'. At the bottom, execution statistics are shown: 'Execution Time : 0.445 sec', 'Transfer Time : 0 sec', and 'Total Time : 0.446 sec'.

```
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
```

A screenshot of a SQL client's Result window. The window has a blue header bar with four tabs: '1 Result' (selected), '2 Profiler', '3 Messages', and '4 Table'. Below the header is a toolbar with icons for various actions and a dropdown menu set to '(Read Only)'. The main area displays a table with four columns: 'S_ROLL', 'S_NAME', 'S_MARKS', and 'S_GRADE'. There are five rows of data, each with a checkbox in the first column. The first row is highlighted in blue.

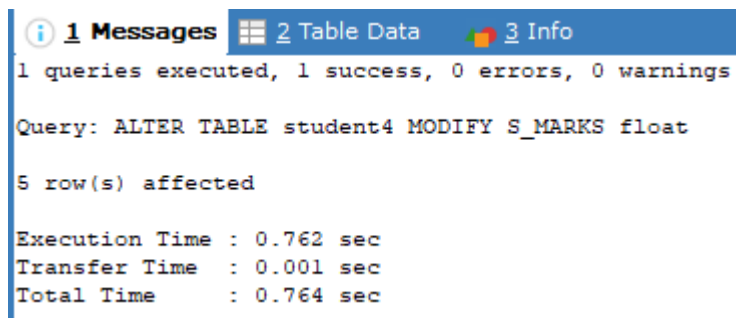
<input type="checkbox"/>	S_ROLL	S_NAME	S_MARKS	S_GRADE
<input type="checkbox"/>	1	Aarav Sharma	95	12
<input type="checkbox"/>	2	Sneha Koirala	91	12
<input type="checkbox"/>	3	Bikash Thapa	88	2
<input type="checkbox"/>	4	Prerana Rai	67	3
<input type="checkbox"/>	5	Kiran Lama	59	4

4. Change datatypes of existing column.

Source code:

```
ALTER TABLE student4 MODIFY S_MARKS FLOAT;
```

Output:



The screenshot shows a SQL Messages window with a blue header bar containing three tabs: '1 Messages', '2 Table Data', and '3 Info'. The '1 Messages' tab is active. The text in the window reads: '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', and 'Total Time : 0.764 sec'.

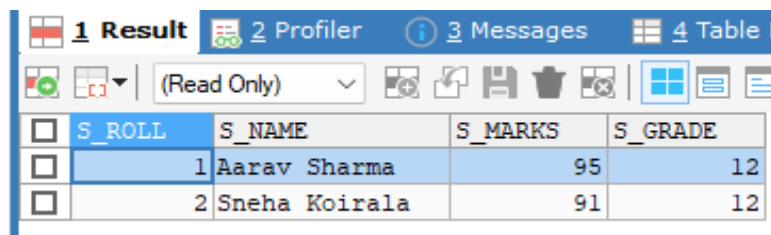
```
1 Messages 2 Table Data 3 Info
1 queries executed, 1 success, 0 errors, 0 warnings
Query: ALTER TABLE student4 MODIFY S_MARKS float
5 row(s) affected
Execution Time : 0.762 sec
Transfer Time : 0.001 sec
Total Time : 0.764 sec
```

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:



The screenshot shows a SQL Result window with a blue header bar containing four tabs: '1 Result', '2 Profiler', '3 Messages', and '4 Table Data'. The '1 Result' tab is active. Below the header bar is a toolbar with various icons and a '(Read Only)' dropdown menu. The main area displays a table with four columns: 'S_ROLL', 'S_NAME', 'S_MARKS', and 'S_GRADE'. There are two rows of data: the first row has '1', 'Aarav Sharma', '95', and '12'; the second row has '2', 'Sneha Koirala', '91', and '12'.

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