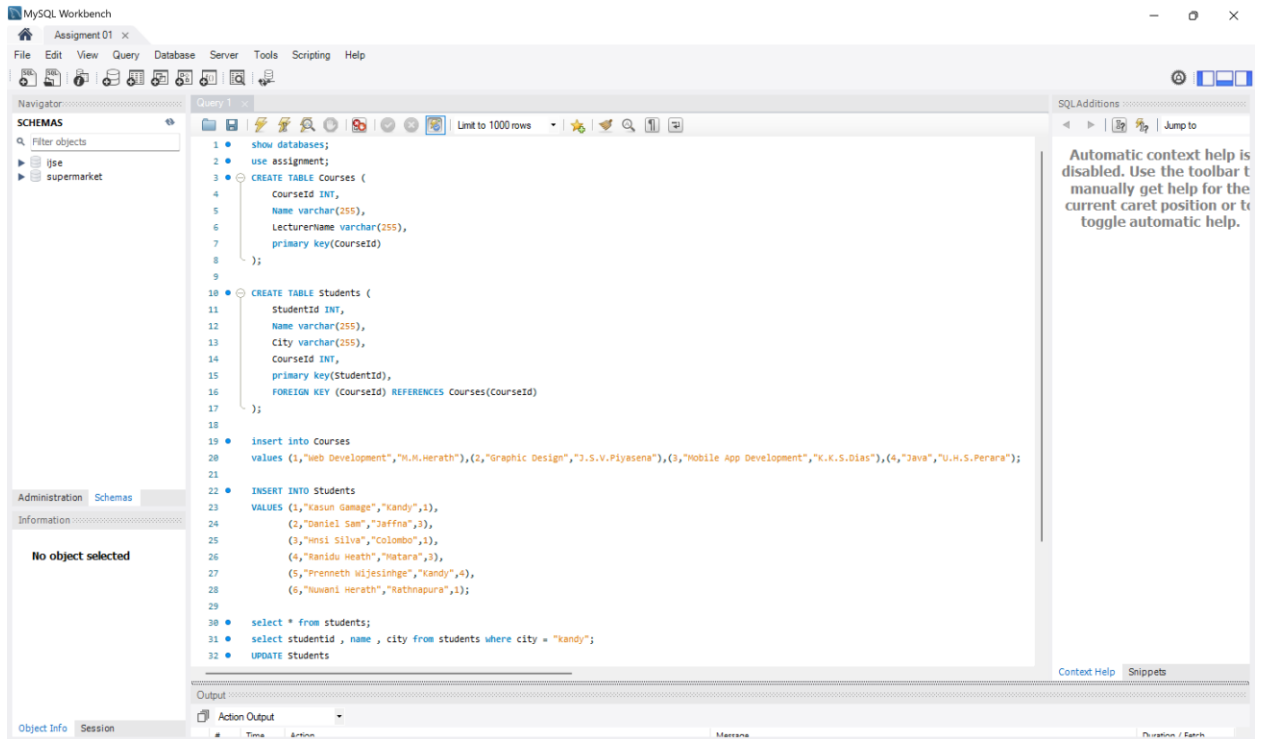


02) ii/ii



(iv)

A. Get all the information of all Students

select * from students;

The screenshot shows the MySQL Workbench interface. The 'Query 1' editor contains the following SQL code:

```
15 primary key(StudentId),
16 FOREIGN KEY (courseId) REFERENCES Courses(courseId)
17 );
18
19 insert into Courses
20 values (1,"Web Development","M.M.Herath"),(2,"Graphic Design","J.S.V.Piyasena"),(3,"Mobile App Development","K.K.S.Dias"),(4,"Java","U.H.S.Perara");
21
22 INSERT INTO Students
23 VALUES (1,"Kasun Gamage","Kandy",1),
24 (2,"Daniel Sam","Jaffna",3),
25 (3,"Hnsi Silva","Colombo",1),
26 (4,"Ranidu Heath","Matara",3),
27 (5,"Prenneth Wijesinghe","Kandy",4),
28 (6,"Nuwan Herath","Rathnapura",1);
29
30 select * from students;
```

The 'Result Grid' shows the following data:

StudentId	Name	City	CourseId
1	Kasun Gamage	Kandy	1
2	Daniel Sam	Jaffna	3
3	Hnsi Silva	Colombo	1
4	Ranidu Heath	Matara	3
5	Prenneth Wijesinghe	Kandy	4

The 'Output' pane shows the execution log:

#	Time	Action	Message	Duration / Fetch
35	10:35:55	CREATE TABLE Students (StudentId INT, Name varchar(255), City varchar(255), CourseId INT)	0 row(s) affected	0.281 sec
36	13:35:23	insert into Courses values (1,"Web Development","M.M.Herath"),(2,"Graphic Design","J.S.V.Piyasena"),(3,"Mobile App Development","K.K.S.Dias"),(4,"Java","U.H.S.Perara");	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.172 sec
37	14:01:21	insert into Students values (1,"Kasun Gamage","Kandy",1),(2,"Daniel Sam","Jaffna",3),(3,"Hnsi Silva","Colombo",1),(4,"Ranidu Heath","Matara",3),(5,"Prenneth Wijesinghe","Kandy",4),(6,"Nuwan Herath","Rathnapura",1);	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'Kandy',1),(2,'Daniel Sam','Jaffna',3),(3,'Hnsi Silv...' at line 1	0.047 sec
38	14:03:26	INSERT INTO Students VALUES (1,"Kasun Gamage","Kandy",1), (2,"Daniel Sam","Jaffna",3), (3,"Hnsi Silva","Colombo",1), (4,"Ranidu Heath","Matara",3), (5,"Prenneth Wijesinghe","Kandy",4), (6,"Nuwan Herath","Rathnapura",1);	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.172 sec
39	14:10:29	select * from student LIMIT 0, 1000	Error Code: 1146. Table 'assignment.student' doesn't exist	0.093 sec
40	14:10:42	select * from students LIMIT 0, 1000	6 row(s) returned	0.031 sec / 0.000 sec

B. Select student id, name and city from students who are from the 'kandy'.

select studentid , name , city from students where city = "kandy";

The screenshot shows the MySQL Workbench interface. The main editor displays a SQL query with several lines of code, including INSERT statements for 'Courses' and 'Students', and a SELECT statement to retrieve student information from the 'Students' table where the city is 'kandy'.

```
17 ;
18
19 • insert into Courses
20 values (1,"Web Development","M.M.Herath"),(2,"Graphic Design","J.S.V.Piyase...
21
22 • INSERT INTO Students
23 VALUES (1,"Kasun Gamage","Kandy",1),
24 (2,"Daniel Sam","Jaffna",3),
25 (3,"Hnsi Silva","Colombo",1),
26 (4,"Kasidu Heath","Matara",3),
27 (5,"Prenneth Wijesinghe","Kandy",4),
28 (6,"Nuwani Herath","Rathnapura",1);
29
30 • select * from students;
31
32 • select studentid , name , city from students where city = "kandy";
```

Below the query editor, the 'Result Grid' shows the results of the last query executed. It displays two rows of data:

studentid	name	city
1	Kasun Gamage	Kandy
5	Prenneth Wijesinghe	Kandy

The 'Output' pane at the bottom shows the execution log, including the time taken for each query and the number of rows affected or returned.

#	Time	Action	Message	Duration / Fetch
36	13:35:23	insert into Courses values (1,"Web Development","M.M.Herath"),(2,"Graphic Design","J.S.V.Piyase...	4 row(s) affected Records: 4 Duplicates: 0 Warnings: 0	0.172 sec
37	14:01:21	insert into Students values (1,"Kasun Gamage","Kandy",1),(2,"Daniel Sam","Jaffna",3),(3,"Hnsi Silv...	Error Code: 1064. You have an error in your SQL syntax; check the manual that corresponds to your ...	0.047 sec
38	14:03:26	INSERT INTO Students VALUES (1,"Kasun Gamage","Kandy",1), (2,"Daniel Sam","Jaffna",3...	6 row(s) affected Records: 6 Duplicates: 0 Warnings: 0	0.172 sec
39	14:10:29	select * from student LIMIT 0, 1000	Error Code: 1146. Table 'assignment.student' doesn't exist	0.093 sec
40	14:10:42	select * from students LIMIT 0, 1000	6 row(s) returned	0.031 sec / 0.000 sec
41	14:15:37	select studentid , name , city from students where city = "kandy" LIMIT 0, 1000	2 row(s) returned	0.125 sec / 0.000 sec

C. Update the City as 'Galle' of the student whose id equals to 4

UPDATE Students

SET City = "Galle"

WHERE StudentId = 4;

The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying a SQL script. The 'Result Grid' shows the 'students' table with 5 rows. The 'Output' tab shows the execution log with several errors.

Query 1:

```
21
22 INSERT INTO Students
23 VALUES (1,"Kasun Gamage","Kandy",1),
24          (2,"Daniel Sam","Jaffna",3),
25          (3,"Hnsi Silva","Colombo",1),
26          (4,"Ranidu Heath","Kandy",3),
27          (5,"Prenneth Wijesinghe","Kandy",4),
28          (6,"Suwani Herath","Rathnapura",1);
29
30 select * from students;
31 select studentid , name , city from students where city = "kandy";
32 UPDATE Students
33 SET City = "Galle"
34 WHERE StudentId = 4;
35
36 select * from students;
```

Result Grid:

StudentId	Name	City	CourseId
1	Kasun Gamage	Kandy	1
2	Daniel Sam	Jaffna	3
3	Hnsi Silva	Colombo	1
4	Ranidu Heath	Galle	3
5	Prenneth Wijesinghe	Kandy	4

Output:

#	Time	Action	Message	Duration / Fetch
43	14:23:06	update students set city = "Galle" where studentid = 4	Error Code: 1054. Unknown column 'studentid' in 'where clause'	0.000 sec
44	14:25:48	SELECT Students.StudentId, Students.Name, Students.City, Courses.CourseId, Courses.Name AS C...	6 row(s) returned	0.063 sec / 0.000 sec
45	14:26:49	update students set city = "Galle" where studentid = 4	Error Code: 1054. Unknown column 'studentid' in 'where clause'	0.015 sec
46	14:27:10	UPDATE Students SET City = "Galle" WHERE StudentId = 4	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.063 sec
47	14:27:31	UPDATE Students SET City = "Galle" WHERE StudentId = 4	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
48	14:27:59	select * from students LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec

D. Get all the information of all students with their course names.

```
SELECT Students.StudentId, Students.Name, Students.City, Courses.CourseId,  
Courses.Name AS CourseName, Courses.LecturerName  
FROM Students  
INNER JOIN Courses  
ON Students.CourseId = Courses.CourseId;
```

The screenshot shows the MySQL Workbench interface. The 'Query' tab is active, displaying a SQL script. The 'Result Grid' shows the output of the final SELECT query, which lists students and their courses. The 'Output' tab at the bottom shows the execution log, including the time taken for each query and the number of rows affected or returned.

Query 1

```
VALUES (1,"kasun damage","kandy",1),  
(2,"Daniel Sam","Jaffna",3),  
(3,"Hnsi Silva","Colombo",1),  
(4,"Ranidu Heath","Rathnapura",3),  
(5,"Prenneth Wijesinghe","kandy",4),  
(6,"Nuwani Herath","Rathnapura",1);  
  
select * from students;  
select studentid , name , city from students where city = "kandy";  
UPDATE Students  
SET City = "Galle"  
WHERE StudentId = 4;  
  
select * from students;  
  
SELECT Students.StudentId, Students.Name, Students.City, Courses.CourseId, Courses.Name AS CourseName, Courses.LecturerName
```

Result Grid

StudentId	Name	City	CourseId	CourseName	LecturerName
1	Kasun Gamage	Kandy	1	Web Development	M.M.Herath
3	Hnsi Silva	Colombo	1	Web Development	M.M.Herath
6	Nuwani Herath	Rathnapura	1	Web Development	M.M.Herath
2	Daniel Sam	Jaffna	3	Mobile App Development	K.K.S.Dias
4	Ranidu Heath	Galle	3	Mobile App Development	K.K.S.Dias

Output

#	Time	Action	Message	Duration / Fetch
44	14:25:48	SELECT Students StudentId, Students Name, Students City, Courses CourseId, Courses Name AS C...	6 row(s) returned	0.063 sec / 0.000 sec
45	14:26:49	update students set city = "Galle" where studentid = 4	Error Code: 1054. Unknown column 'studentid' in 'where clause'	0.015 sec
46	14:27:10	UPDATE Students SET City = "Galle" WHERE StudentId = 4	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.063 sec
47	14:27:31	UPDATE Students SET City = "Galle" WHERE StudentId = 4	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
48	14:27:59	select * from students LIMIT 0, 1000	6 row(s) returned	0.016 sec / 0.000 sec
49	14:31:18	SELECT Students StudentId, Students Name, Students City, Courses CourseId, Courses Name AS C...	6 row(s) returned	0.000 sec / 0.000 sec