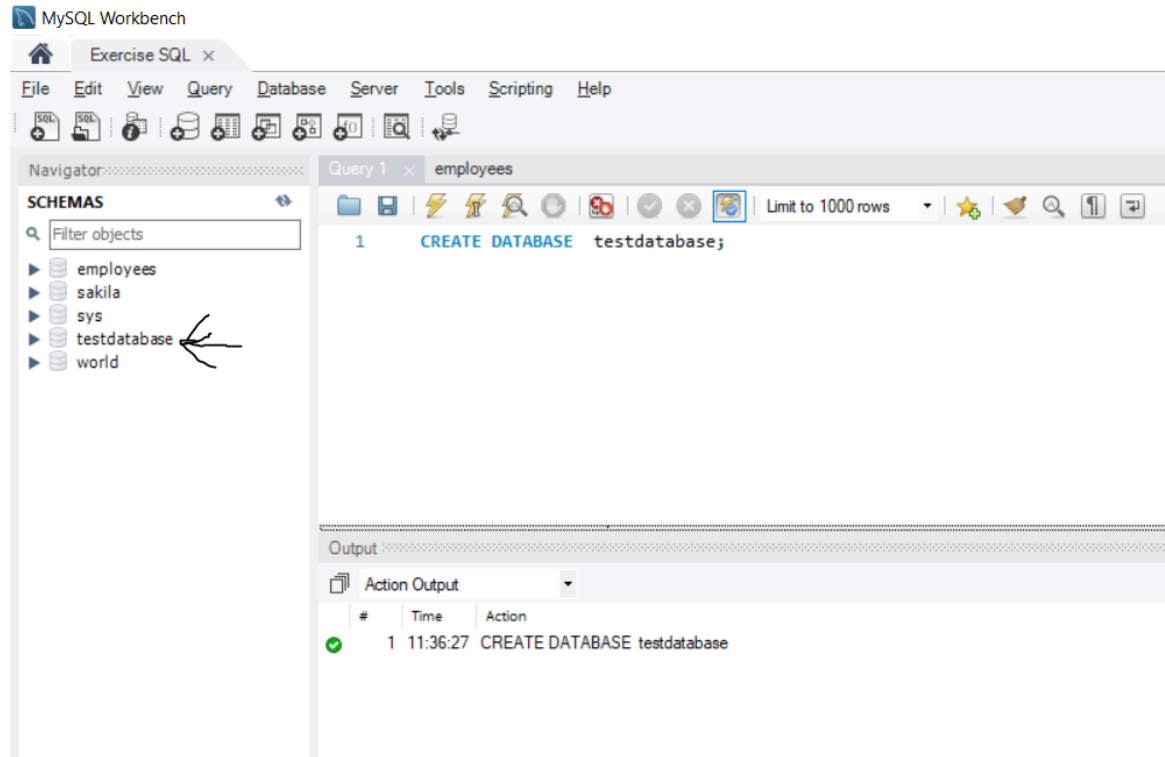


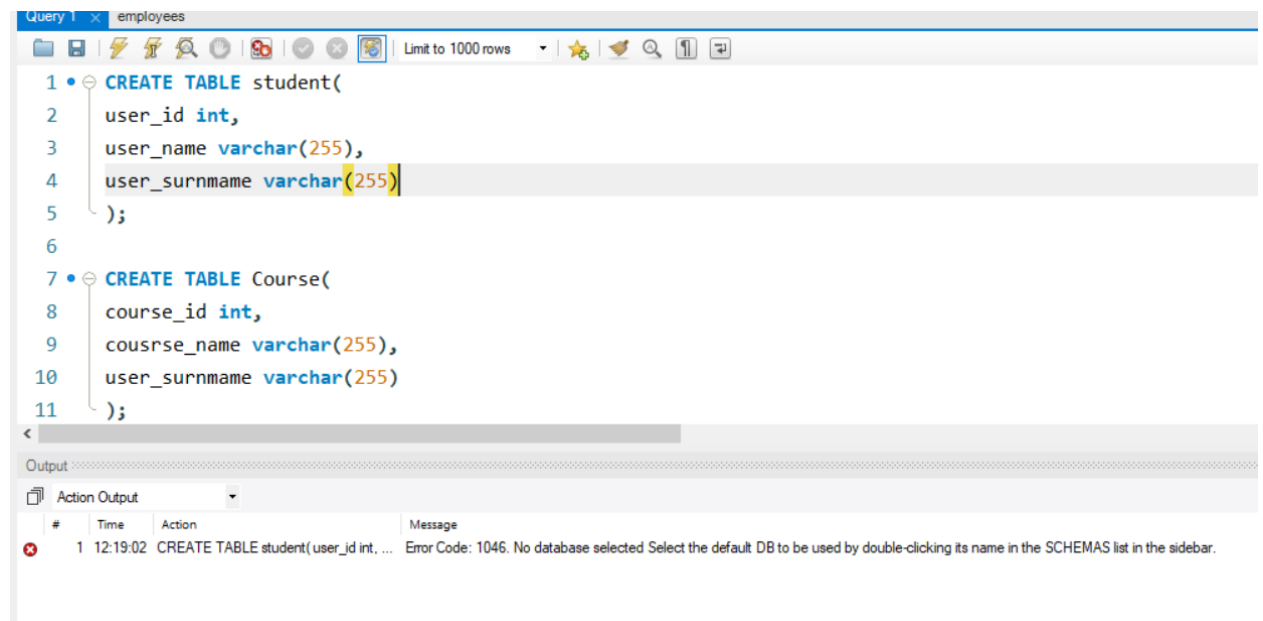
EXERCISE SQL.

1. CREATE DATABASE AND TABLE

CREATE DATABASE testdatabase;



CREATE TABLE




```
14 • CREATE TABLE Enrollment (  
15     enrollment_id int,  
16     student_id int,  
17     course_id int  
18 );  
19
```

Output				
Action Output				
#	Time	Action	Message	
✓ 1	16:49:37	CREATE TABLE Enrollment (enrollm...	0 row(s) affected	

2. DROP TABLE AND DATABASE

```
14 • DROP TABLE Course, student;  
15  
16
```

Output				
Action Output				
#	Time	Action	Message	
✓ 1	12:25:17	DROP TABLE Course, student	0 row(s) affected	

```
9 • DROP DATABASE testdatabase;
10
```

Output			
Action Output			
#	Time	Action	Message
✓ 1	12:07:48	DROP DATABASE testdatabase	0 row(s) affected

3. Alter table to add unique, primary and foreign key constraints

```
ALTER TABLE student ADD PRIMARY KEY(student_id) ;
ALTER TABLE student ADD UNIQUE(student_id) ;
```

Output		
Time	Action	Message
15:16:02	ALTER TABLE student ...	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
15:16:07	ALTER TABLE student ...	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

19 • **ALTER TABLE** Course **ADD PRIMARY KEY**(course_id) ;

20 • **ALTER TABLE** Course **ADD UNIQUE**(course_id) ;

21

22

Output				
Action Output				
#	Time	Action	Message	
✓ 1	16:26:32	ALTER TABLE Course ADD PRIMA...	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	
✓ 2	16:27:12	ALTER TABLE Course ADD UNIQU...	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	

ALTER TABLE Enrollment **ADD FOREIGN KEY** fk_payment_student(student_id)

REFERENCES student(student_id);

ALTER TABLE Enrollment **ADD FOREIGN KEY** fk_payment_course(course_id)

REFERENCES Course(course_id);

ion Output			Message
Time	Action		
1 17:55:33	ALTER TABLE Enrollment ADD FOREIGN KEY fk_payment_course(course_id) REFERENCES Course(course_id)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0	

4. INSERT VALUES.

• **INSERT INTO** STUDENT (STUDENT_NAME,STUDENT_SURNAME) **VALUES**('JUAN', 'SANCHEZ');

Action Output			Message
Time	Action		
1 18:02:12	INSERT INTO STUDENT (STUDENT_NAME,STUDENT_SURNAME) VALUES(JUAN, 'SANCHEZ')	Error Code: 1364. Field 'student_id' doesn't have a default value	

34 • **INSERT INTO** STUDENT (student_id,STUDENT_NAME,STUDENT_SURNAME) **VALUES**(1,'JUAN', 'SANCHEZ');

35

Output			Message
Action Output			
#	Time	Action	Message
✗ 1	18:02:12	INSERT INTO STUDENT (STUDENT_NAME,STUDENT_SURNAME) VALUES(JUAN, 'SANCHEZ')	Error Code: 1364. Field 'student_id' doesn't have a default value
✓ 2	18:03:12	INSERT INTO STUDENT (student_id,STUDENT_NAME,STUDENT_SURNAME) VALUES(1,'JUAN', 'SANCHEZ')	1 row(s) affected

ALTER TABLE COURSE CHANGE USER_SURNAME DESCRIPTION VARCHAR(500);

Context Help

Output

Time	Action	Message
18:23:12	ALTER TABLE COURSE CHANGE USER_SURNAME DESCRIPTION VARCHAR(500)	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0

- **INSERT INTO** STUDENT (student_id,STUDENT_NAME,STUDENT_SURNAME) **VALUES**(1,'JUAN', 'SANCHEZ');
- **INSERT INTO** STUDENT (student_id,STUDENT_NAME,STUDENT_SURNAME) **VALUES**(2,'MARIA', 'MORALES');
- **INSERT INTO** STUDENT (student_id,STUDENT_NAME,STUDENT_SURNAME) **VALUES**(3,'MAY', 'PEREZ');
- **INSERT INTO** Course (course_id,COURSSE_NAME,DESCRIPTION) **VALUES**(1,'Microservices', 'Learn microservices');
- **INSERT INTO** Course (course_id,COURSSE_NAME,DESCRIPTION) **VALUES**(2,'LamBdas and streams', 'learn lambdas');
- **INSERT INTO** Course (course_id,COURSSE_NAME,DESCRIPTION) **VALUES**(3,'Unit tests with mockito', 'learn test

Conte

44 • **INSERT INTO** ENROLLMENT(enrollment_id,student_id,course_id) **VALUES**(1,1,1);

45 • **INSERT INTO** ENROLLMENT(enrollment_id,student_id,course_id) **VALUES**(1,1,2);

46

47

<

Output

Action Output

#	Time	Action	Message
✓ 1	18:48:01	INSERT INTO ENROLLMENT(enrollment_id,student_id,course_id) VALUES(1,1,1)	1 row(s) affected
✓ 2	18:48:04	INSERT INTO ENROLLMENT(enrollment_id,student_id,course_id) VALUES(1,1,2)	1 row(s) affected

5. DELETE a few courses

47 • **DELETE FROM** COURSE **WHERE** COURSE_ID=2;

Context Help Snippets

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✗ 1	18:58:03	DELETE FROM COURSE WHERE COURSE_ID=2	Error Code: 1451. Cannot delete or update a parent row: a foreign key constraint fails ('testdatabase`.`enrollment', CONSTRAINT 'enrollment_...	0.016 sec

- 47 • **DELETE FROM COURSE WHERE COURSE_ID=2;**
- 48 • **DELETE FROM COURSE WHERE COURSE_ID=1;**
- 49 • **DELETE FROM COURSE WHERE COURSE_ID=3;**

Output

Action Output

#	Time	Action	Message
✓ 1	19:51:03	DELETE FROM COURSE WHERE COURSE_ID=2	1 row(s) affected
✓ 2	19:53:18	SELECT * FROM testdatabase.enrollment LIMIT 0, 1000	1 row(s) returned
✓ 3	19:54:07	DELETE FROM COURSE WHERE COURSE_ID=1	1 row(s) affected
✓ 4	19:54:11	DELETE FROM COURSE WHERE COURSE_ID=3	1 row(s) affected

- 51 • **ALTER TABLE enrollment**
- 52 **DROP FOREIGN KEY enrollment_ibfk_2;**
- 53
- 54 • **ALTER TABLE enrollment**
- 55 **ADD CONSTRAINT enrollment_ibfk_2**
- 56 **FOREIGN KEY (course_id)**
- 57 **REFERENCES course (course_id)**
- 58 **ON DELETE CASCADE;**
- 59

<

Output

Action Output

#	Time	Action	Message
✓ 1	19:46:51	ALTER TABLE enrollment DROP FOREIGN KEY enrollment_ibfk_2	0 row(s) affected Records: 0 Duplicates: 0 Warnings: 0
✓ 2	19:46:58	ALTER TABLE enrollment ADD CONSTRAINT enrollment_ibfk_2 FO...	2 row(s) affected Records: 2 Duplicates: 0 Warnings: 0

6. Fetch all student details who have courses enrolled and all students

- 66 • **SELECT * FROM STUDENT INNER JOIN ENROLLMENT ON STUDENT.STUDENT_ID=ENROLLMENT.STUDENT_ID;**
- 67

<





Result Grid

student_id	student_name	student_surname	enrollment_id	student_id	course_id
1	JUAN	SANCHEZ	2	1	2
1	JUAN	SANCHEZ	1	1	1

```

69 • SELECT * FROM
70 STUDENT INNER JOIN ENROLLMENT ON STUDENT.STUDENT_ID=ENROLLMENT.STUDENT_ID
71 INNER JOIN COURSE ON ENROLLMENT.COURSE_ID=COURSE.COURSE_ID;
72
73

```

<									
Result Grid			Filter Rows:	<input type="text"/>	Export:		Wrap Cell Content:		
	student_id	student_name	student_surname	enrollment_id	student_id	course_id	course_id	course_name	DESCRIPTION
▶	1	JUAN	SANCHEZ	1	1	1	1	Microservices	Learn microservices
	1	JUAN	SANCHEZ	2	1	2	2	Lambdas and streams	learn lambdas