

1. Write an SQL query to insert a new student into the "Students" table with the following details:

a. First Name: John

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b. Last Name: Doe

c. Date of Birth: 1995-08-15

d. Email: john.doe@example.com

e. Phone Number: 1234567890

```
mysql> INSERT INTO Students VALUE (11,"John","Doe",'1995-08-15',"john.doe@example.com",1234567890);
Query OK, 1 row affected (0.01 sec)

mysql> SELECT * FROM Students;
+-----+-----+-----+-----+-----+-----+
| student_id | first_name | last_name | date_of_birth | email | phone_number |
+-----+-----+-----+-----+-----+-----+
| 1 | Alice | Smith | 2001-01-01 | alice.smith@email.com | 1234567890 |
| 2 | Bob | Johnson | 2001-02-02 | bob.johnson@email.com | 2345678901 |
| 3 | Carol | Williams | 2001-03-03 | carol.williams@email.com | 3456789012 |
| 4 | David | Brown | 2001-04-04 | david.brown@email.com | 4567890123 |
| 5 | Emma | Davis | 2001-05-05 | emma.davis@email.com | 5678901234 |
| 6 | Frank | Miller | 2001-06-06 | frank.miller@email.com | 6789012345 |
| 7 | Grace | Wilson | 2001-07-07 | grace.wilson@email.com | 7890123456 |
| 8 | Henry | Moore | 2001-08-08 | henry.moore@email.com | 8901234567 |
| 9 | Isabel | Taylor | 2001-09-09 | isabel.taylor@email.com | 9014345678 |
| 10 | Jack | Anderson | 2001-10-10 | jack.anderson@email.com | 123456789 |
| 11 | John | Doe | 1995-08-15 | john.doe@example.com | 1234567890 |
+-----+-----+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

2. Write an SQL query to enroll a student in a course. Choose an existing student and course and insert a record into the "Enrollments" table with the enrollment date.

```
mysql> INSERT INTO enrollments VALUE(11,3,104,'2024-01-18');
Query OK, 1 row affected (0.01 sec)

mysql> select * from enrollments;;
+-----+-----+-----+-----+
| enrollment_id | student_id | course_id | enrollment_date |
+-----+-----+-----+-----+
| 1 | 1 | 101 | 2024-01-15 |
| 2 | 2 | 102 | 2024-01-16 |
| 3 | 3 | 103 | 2024-01-17 |
| 4 | 4 | 104 | 2024-01-18 |
| 5 | 5 | 105 | 2024-01-19 |
| 6 | 6 | 106 | 2024-01-20 |
| 7 | 7 | 107 | 2024-01-21 |
| 8 | 8 | 108 | 2024-01-22 |
| 9 | 9 | 109 | 2024-01-23 |
| 10 | 10 | 110 | 2024-01-24 |
| 11 | 3 | 104 | 2024-01-18 |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)

ERROR:
No query specified
```

3. Update the email address of a specific teacher in the "Teacher" table. Choose any teacher and modify their email address.

```
mysql> UPDATE Teacher SET email='abcd@gmail.com' WHERE teacher_id=2;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM Teacher;
```

teacher_id	first_name	last_name	email
1	John	Doe	john.doe@email.com
2	Jane	Doe	abcd@gmail.com
3	Jim	Beam	jim.beam@email.com
4	Sara	Conor	sara.conor@email.com
5	Luke	Skywalker	luke.skywalker@email.com
6	Leia	Organa	leia.organa@email.com
7	Han	Solo	han.solo@email.com
8	Anakin	Skywalker	anakin.skywalker@email.com
9	Obi-Wan	Kenobi	obiwan.kenobi@email.com
10	Yoda	Master	master.yoda@email.com

```
10 rows in set (0.00 sec)
```

4. Write an SQL query to delete a specific enrollment record from the "Enrollments" table. Select an enrollment record based on the student and course.

NOTE: NO DATA IS DELETED BECAUSE THERE IS NO SUCH RECORD WHERE student_id is 5 AND course_id is 103

```
mysql> DELETE FROM Enrollments WHERE student_id=5 AND course_id=103;
Query OK, 0 rows affected (0.00 sec)

mysql> SELECT * FROM Enrollments;
```

enrollment_id	student_id	course_id	enrollment_date
1	1	101	2024-01-15
2	2	102	2024-01-16
3	3	103	2024-01-17
4	4	104	2024-01-18
5	5	105	2024-01-19
6	6	106	2024-01-20
7	7	107	2024-01-21
8	8	108	2024-01-22
9	9	109	2024-01-23
10	10	110	2024-01-24

```
10 rows in set (0.00 sec)
```

5. Update the "Courses" table to assign a specific teacher to a course. Choose any course and teacher from the respective tables.

```
mysql> UPDATE courses SET teacher_id=1 WHERE course_id=111;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM courses;
+-----+-----+-----+-----+
| course_id | course_name      | credits | teacher_id |
+-----+-----+-----+-----+
| 101       | Mathematics      | 4       | 1          |
| 102       | Physics          | 3       | 2          |
| 103       | Chemistry        | 4       | 3          |
| 104       | Biology          | 4       | 4          |
| 105       | English Literature | 3       | 5          |
| 106       | Computer Science | 3       | 6          |
| 107       | Art History      | 2       | 7          |
| 108       | Economics        | 3       | 8          |
| 109       | Psychology       | 3       | 9          |
| 110       | Sociology        | 3       | 10         |
| 111       | Probability      | 2       | 1          |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

6. Delete a specific student from the "Students" table and remove all their enrollment records from the "Enrollments" table. Be sure to maintain referential integrity.

7. Update the payment amount for a specific payment record in the "Payments" table. Choose any payment record and modify the payment amount.

```
mysql> UPDATE payments SET amount=2010 WHERE payment_id=5 AND student_id=5;
Query OK, 1 row affected (0.01 sec)
Rows matched: 1  Changed: 1  Warnings: 0

mysql> SELECT * FROM payments;
+-----+-----+-----+-----+
| payment_id | student_id | amount | payment_date |
+-----+-----+-----+-----+
| 1          | 1          | 1000   | 2024-01-01   |
| 2          | 2          | 1500   | 2024-01-02   |
| 3          | 3          | 1200   | 2024-01-03   |
| 4          | 4          | 1300   | 2024-01-04   |
| 5          | 5          | 2010   | 2024-01-05   |
| 6          | 6          | 1100   | 2024-01-06   |
| 7          | 7          | 1600   | 2024-01-07   |
| 8          | 8          | 1700   | 2024-01-08   |
| 9          | 9          | 1800   | 2024-01-09   |
| 10         | 10         | 1900   | 2024-01-10   |
+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```