

INNER JOINS

Video Task

Watch the video.

Complete this SQL query which will output the name of every bus number and driver on a trip.

SQL

```
SELECT trips.BusNum, drivers.FirstName  
FROM trips  
INNER JOIN _____;
```

Practical Task

Continue to the practical task in the unit page and set up a new database in XAMPP.

Make sure you determine the primary key for each table.

Task 1

Test your setup by running the following queries:

SQL

```
SELECT *  
FROM enrollment  
INNERJOIN students ON enrollment.studentID = students.studentID;
```

You should see all of the data from the Enrollment table along with any corresponding student data.

Let's continue on to a slightly more complex query. We will try to find all courses that a particular students has enrolled in:

SQL

```
SELECT students.student_name, courses.course_name  
FROM enrollment  
INNER JOIN students ON enrollment.student_id = students.student_id  
INNER JOIN courses ON enrollment.course_id = courses.course_id
```

```
WHERE students.student_id = "S001";
```

Run the query. Does it work as expected?

Task 2

Let's use our SQL skills to **insert** the following record into Students.

```
SQL
INSERT INTO Students VALUES ("S201", "Jessie Lang", 10);
```

Note that Jessie has not enrolled in any courses yet. So if we run the following query, we should not see Jessie in the output:

```
SQL
SELECT students.student_name, courses.course_name
FROM enrollment
INNER JOIN students ON enrollment.student_id = students.student_id
INNER JOIN courses ON enrollment.course_id = courses.course_id;
```

Run the query and check that Jessie does not appear in the output of the query.

Task 3

A teacher wants to know the names of every student, teacher and course of students enrolled in any computer-related courses (hint, use wildcards)¹.

Write this query and once successful, enter your answer here:

```
SQL
```

¹ There should be 3 records in the output

Task 4

Draw an Entity Relationship Diagram for this database.