

# Assignment 5

## INNER JOIN

Query 1:

```
1 • use mydb;
2 • SELECT distinct ID, FirstName, LastName
3   FROM Student
4  INNER JOIN Course_student
5  ON Student.ID = Course_student.Student_ID;
```

160% 43:5

Result Grid Filter Rows: Search Export:

ID	FirstName	LastName
1	Ben	Askren
11	One	Student
101	John	Wayne
102	Peter	Walker
103	Ben	Godfrey
104	Harry	Winks
105	Odion	Ighalo

Result Grid Form Editor

Query 2:

```
1 • use mydb;
2 • SELECT DISTINCT
3     Student.FirstName, Student.LastName
4 FROM
5     ((Course_student
6     INNER JOIN Course ON Course.ID = Course_student.Course_ID))
7     INNER JOIN
8     Student ON Course_student.Student_ID = Student.ID;
```

160% 55:8

Result Grid Filter Rows: Search Export:

FirstName	LastName
Peter	Walker
Harry	Winks
Odion	Ighalo
John	Wayne
Ben	Askren
One	Student
Ben	Godfrey

Result Grid Form Editor

### Query 3:

```
1 • use mydb;
2 • SELECT DISTINCT
3     Location
4 FROM
5     Department
6     INNER JOIN
7     Instructor_has_Department ON Department.Name =
8     Instructor_has_Department.Department_Name
9 WHERE
10    Department.Location LIKE '% Block';
```

160% 6:8

Result Grid Filter Rows: Search Export:

Location
North Block
South Block
East Block

Result Grid Form Editor

# LEFT OUTER JOIN

Query 1:

```
1 • use mydb;
2 • SELECT DISTINCT
3     ID, Name, Duration_days
4 FROM
5     Course
6     LEFT JOIN
7     Course_student ON Course.ID = Course_student.Course_ID
8 ORDER BY Duration_days;
```

160% 13:6

Result Grid Filter Rows: Search Export:

	ID	Name	Duration_days
▶	104	E	31
	100	A	61
	102	C	78
	101	B	92
	2	Instructors	122
	103	D	122
	1	Instructor	301

Result Grid Form Editor

Query 2:

```

1 • use mydb;
2 • SELECT
3     ID, FirstName, LastName
4 FROM
5     (Student
6     LEFT JOIN Course_student ON Student.ID = Course_student.Student_ID)
7 GROUP BY ID
8 HAVING COUNT(FirstName) > 2;

```

160% 28:8

Result Grid Filter Rows: Search Export:

ID	FirstName	LastName
1	Ben	Askren
11	One	Student
101	John	Wayne
102	Peter	Walker
103	Ben	Godfrey
104	Harry	Winks
105	Odion	Ighalo

Result Grid Form Editor

Query 3:

```
1 • use mydb;
2 • SELECT DISTINCT
3     Instructor.ID, Instructor.FirstName, Instructor.LastName
4 FROM
5     ((Instructor_has_Department
6     LEFT JOIN Department ON Department.Name = Instructor_has_Department.
7     Department_Name))
8     LEFT JOIN
9     Instructor ON Instructor_has_Department.Instructor_ID = Instructor.ID;
```

160% 75:8

Result Grid Filter Rows: Search Export:

ID	FirstName	LastName
▶ 1	Banne	Khan
2	Nanne	Khan
3	James	Thurber
4	H.L.	Mencken
5	E.B.	White

Result 56 Read Only

Result Grid Form Editor

## RIGHT OUTER JOINS

### Query 1:

```

1 • use mydb;
2 • SELECT DISTINCT
3     ID, FirstName, LastName, Phone
4 FROM
5     Instructor
6     RIGHT JOIN
7     Instructor_has_Department ON Instructor.ID =
8     Instructor_has_Department.Instructor_ID
9 WHERE
10    ID > 2;

```

160% 19:6

Result Grid Filter Rows: Search Export:

ID	FirstName	LastName	Phone
3	James	Thurber	9998887772
4	H.L.	Mencken	9998887745
5	E.B.	White	9968887871

Result Grid Form Editor

## Query 2:

```

1 • use mydb;
2 • SELECT DISTINCT
3     ID, Name, Department_Name, Duration_days
4 FROM
5     Course
6     RIGHT JOIN
7     Course_student ON Course.ID = Course_student.Course_ID
8 GROUP BY ID
9 HAVING Duration_days > (select avg(Duration_days) from Course);

```

160% 64:9

Result Grid Filter Rows: Search Export:

ID	Name	Department_Name	Duration_days
2	Instructors	Dept2	122
103	D	Dept1	122
1	Instructor	Dept1	301

Result Grid Form Editor

Query 3:

1 • use mydb;

2 SELECT DISTINCT

3 Course.ID, Course.Name, Course.Duration\_days

4 FROM

5 ((Course\_student

6 RIGHT JOIN Student ON Student.ID = Course\_student.Student\_ID))

7 RIGHT JOIN

8 Course ON Course\_student.Student\_ID = Student.ID;

160% 54:8

Result Grid Filter Rows: Search Export:

ID	Name	Duration_days
1	Instructor	301
2	Instructors	122
100	A	61
101	B	92
102	C	78
103	D	122
104	E	31

Result Grid Form Editor