

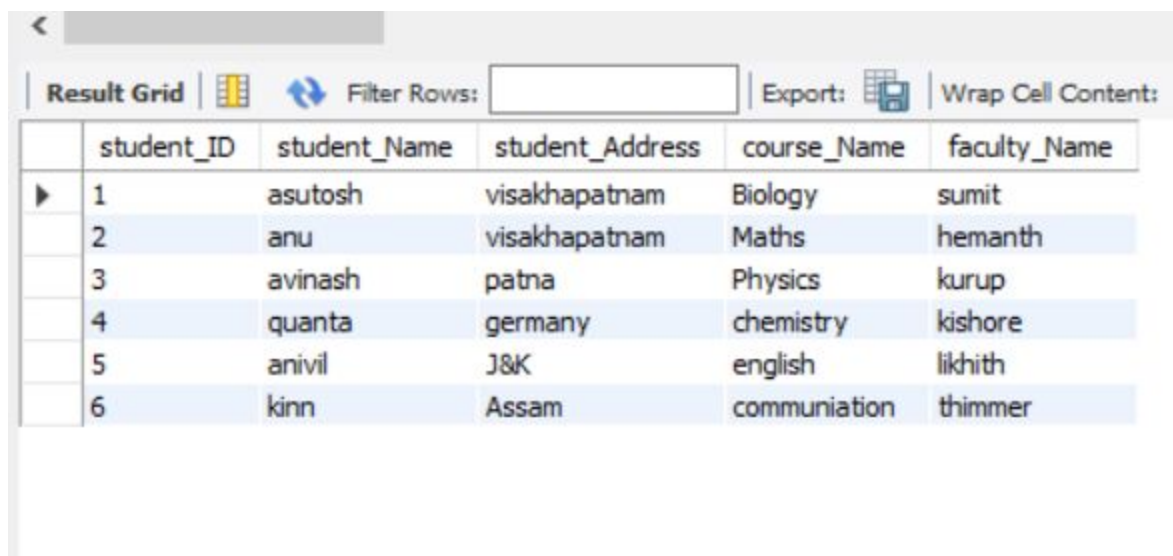
## 1) INNER JOINS

SELECT

Students.student\_ID,Students.student\_Name,Students.student\_Address,Course.course\_Name,Faculty.faculty\_Name FROM Students

JOIN Course ON Course.student\_ID = Students.student\_ID

JOIN Faculty ON Faculty.student\_ID = Students.student\_ID ;



The screenshot shows a database query result grid with the following columns: student\_ID, student\_Name, student\_Address, course\_Name, and faculty\_Name. The grid contains 6 rows of data. The interface includes a 'Result Grid' tab, a 'Filter Rows' search bar, and 'Export' and 'Wrap Cell Content' buttons.

	student_ID	student_Name	student_Address	course_Name	faculty_Name
▶	1	asutosh	visakhapatnam	Biology	sumit
	2	anu	visakhapatnam	Maths	hemanth
	3	avinash	patna	Physics	kurup
	4	quanta	germany	chemistry	kishore
	5	anivil	J&K	english	likhith
	6	kinn	Assam	communiation	thimmer

SELECT Students.student\_Name , Course.course\_Name FROM Students

JOIN Course

WHERE Students.student\_ID = Course.student\_ID ORDER BY Students.student\_Name;

Result Grid			Filter Rows:		Export:	Wrap Cell Content:
	student_Name	course_Name				
▶	anivil	english				
	anu	Maths				
	asutosh	Biology				
	avinash	Physics				
	kinn	communiation				
	quanta	chemistry				

```

SELECT Students.student_Name , Students.student_Address,
Faculty.faculty_Name FROM Faculty
JOIN Students
WHERE Students.student_ID = Faculty.student_ID GROUP BY
Students.student_Address HAVING Students.student_Address =
'patna' ;

```

Result Grid				Filter Rows:		Export:	Wrap Cell Content:
	student_Name	student_Address	faculty_Name				
▶	avinash	patna	kurup				

## LEFT OUTER JOINS

```
SELECT Students.student_Name , Students.student_Address ,  
Course.course_Name FROM Students  
LEFT OUTER JOIN Course  
ON Students.student_ID = Course.student_ID ;
```

Result Grid



Filter Rows:

Export:

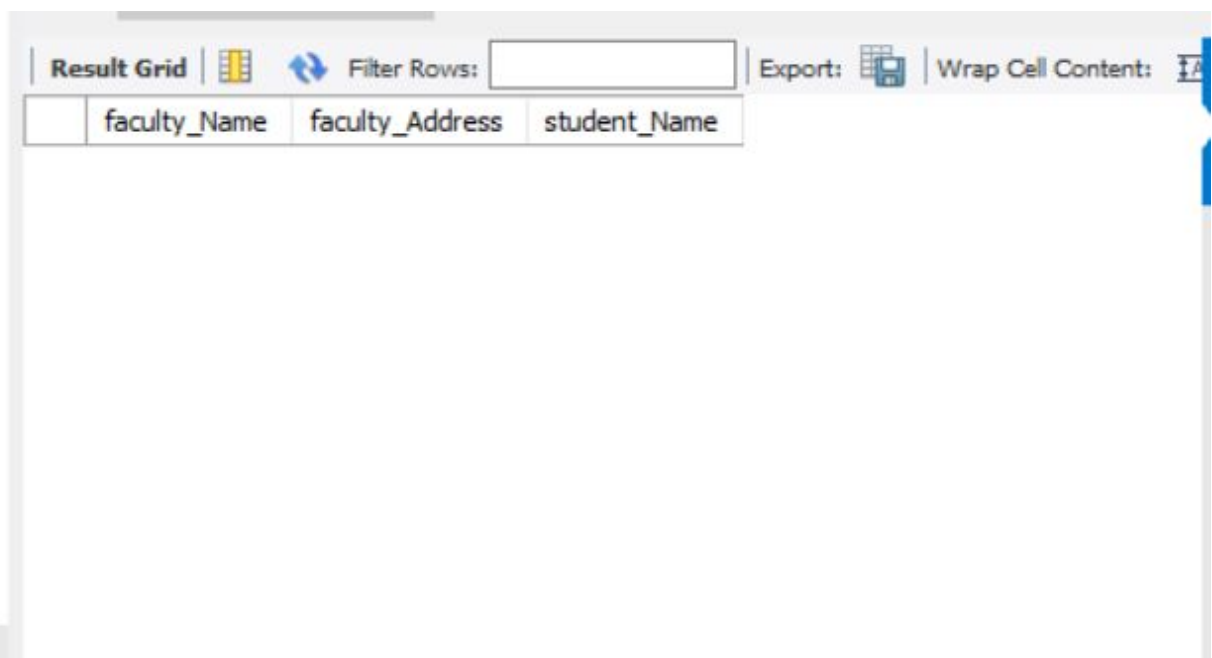


Wrap Cell Content:



	student_Name	student_Address	course_Name
▶	asutosh	visakhapatnam	Biology
	anu	visakhapatnam	Maths
	avinash	patna	Physics
	quanta	germany	chemistry
	anivil	J&K	english
	kinn	Assam	communiation
	humangas	Banglore	NULL
	diskstra	USA	NULL
	grishma	republicofcongo	NULL
	driska	Bombay	NULL

```
SELECT Faculty.faculty_Name , Faculty.faculty_Address ,  
Students.student_Name FROM Faculty  
LEFT OUTER JOIN Students  
ON Faculty.student_ID = Students.student_ID WHERE  
Faculty.faculty_Name LIKE '%a';
```



The screenshot shows a database query result grid. The toolbar at the top includes a 'Result Grid' button, a 'Filter Rows' input field, an 'Export' button, and a 'Wrap Cell Content' button. The table has three columns: 'faculty\_Name', 'faculty\_Address', and 'student\_Name'. The table is currently empty.

	faculty_Name	faculty_Address	student_Name
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```

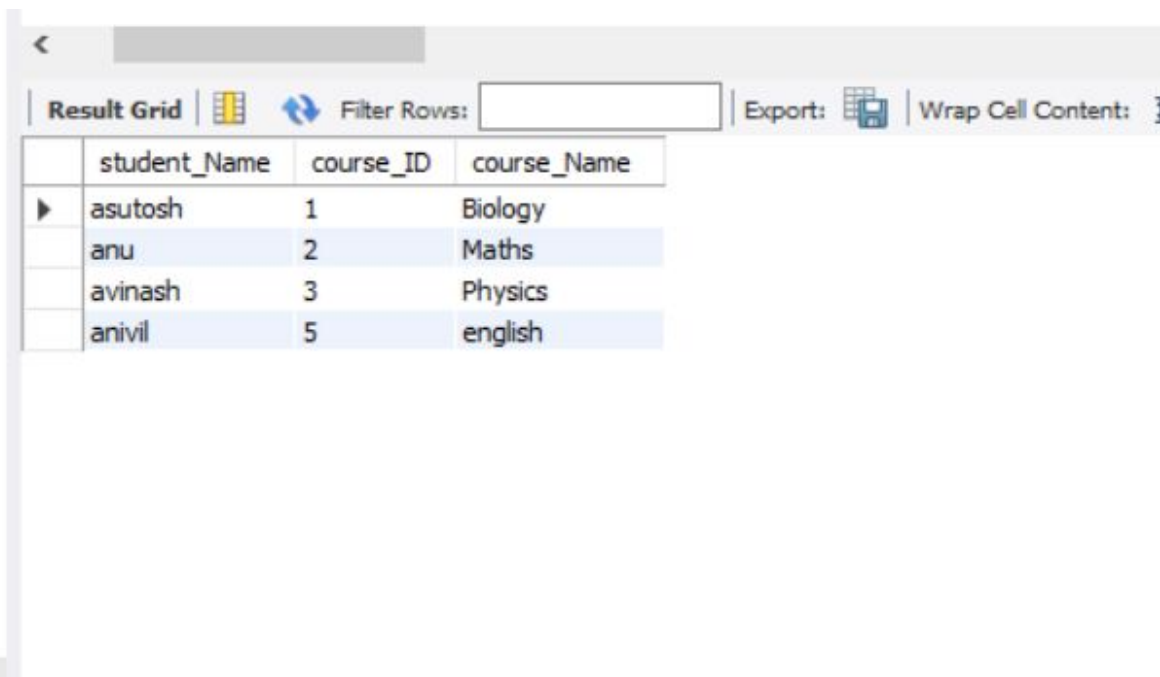
SELECT Students.student_ID ,Students.student_Name ,
Students.student_PhoneNumber , Course.course_Name ,
Faculty.faculty_Name FROM Students
LEFT OUTER JOIN Course
ON Students.student_ID = Course.student_ID
LEFT OUTER JOIN Faculty
ON Students.student_ID = Faculty.student_ID ORDER BY
Faculty.faculty_Name ;

```

student_ID	student_Name	student_PhoneNumber	course_Name	faculty_Name
7	humangas	5609345779	NULL	NULL
8	diskstra	5938499981	NULL	NULL
9	grishma	8345789345	NULL	NULL
10	driska	9440234567	NULL	NULL
2	anu	8579034523	Maths	hemanth
4	quanta	0	chemistry	kishore
3	avinash	4567892349	Physics	kurup
5	anivil	5683458902	english	likhith
1	asutosh	94405481 9440548534	Biology	sumit
6	kinn	5767879908	communiation	thimmer

## RIGHT OUTER JOINS

```
SELECT Students.student_Name , Course.course_ID ,  
Course.course_Name FROM Course  
RIGHT OUTER JOIN Students  
ON Students.student_ID = Course.student_ID WHERE  
Students.student_Name LIKE 'a%';
```



The screenshot shows a database query result grid. The grid has a toolbar at the top with options: 'Result Grid', a grid icon, a refresh icon, 'Filter Rows:' with an input field, 'Export:' with a document icon, and 'Wrap Cell Content:' with a checkbox. The table below has four columns: 'student\_Name', 'course\_ID', and 'course\_Name'. There are four rows of data, each with a blue selection arrow in the first column. The data is as follows:

	student_Name	course_ID	course_Name
▶	asutosh	1	Biology
	anu	2	Maths
	avinash	3	Physics
	anivil	5	english

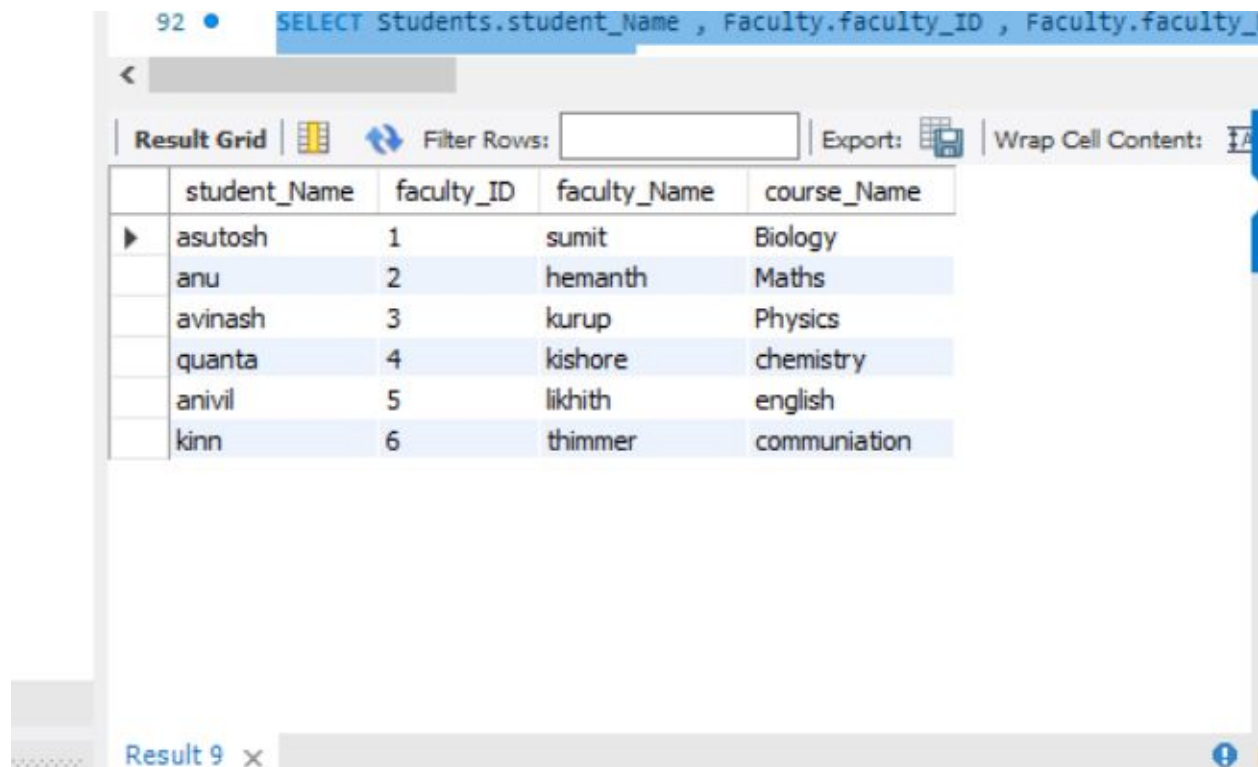
```
SELECT  Students.student_Name , Faculty.faculty_Name ,  
Faculty.faculty_MailID  
FROM Students  
RIGHT OUTER JOIN Faculty  
ON Students.student_ID = Faculty.student_ID GROUP BY  
Faculty.faculty_MailID HAVING Faculty.faculty_MailID =  
'this@gmail.com';
```

89 GROUP BY Faculty.faculty\_MailID HAVING Faculty.faculty\_MailID = 'this@gmail.com'





	student_Name	faculty_Name	faculty_MailID
▶	quanta	kishore	this@gmail.com



```
SELECT Students.student_Name , Faculty.faculty_ID ,  
Faculty.faculty_Name , Course.course_Name FROM Students  
RIGHT OUTER JOIN Faculty  
ON Students.student_ID = Faculty.student_ID  
RIGHT OUTER JOIN Course  
ON Students.student_ID = Course.student_ID ;
```



92 • `SELECT Students.student_Name , Faculty.faculty_ID , Faculty.faculty_`

< **Result Grid**   Filter Rows:  Export:  Wrap Cell Content: 

	student_Name	faculty_ID	faculty_Name	course_Name
▶	asutosh	1	sumit	Biology
	anu	2	hemanth	Maths
	avinash	3	kurup	Physics
	quanta	4	kishore	chemistry
	anivil	5	likhith	english
	kinn	6	thimmer	communiation

Result 9 x 