

**DASC 5333 Database Systems for Data Science**  
**CSCI 4333 Design of Database Systems**  
**Fall 2023**  
**Suggested Solution to Homework #1**

Annotations on solutions are included below. Students do not need to include annotations.

2 (a). For example,

The screenshot shows a database query editor window titled "Query1". A dropdown menu is open, showing the table "student" with its columns: stuld, fname, lname, major, minor, ach, and advisor. Below the dropdown is a query grid with the following content:

Field:	stuld	student: [student].[fname]+' '+[student].[lname]	major	advisorId: advisor	
Table:	student		student	student	
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
Criteria:					
or:					

(b) For example,

Field:	student: [student].[fname]+' '+[student].[lname]	major	advisorId: advisor	minor	advisor: [faculty].[fname]+' '+[faculty].[lname]
Table:	student	student	student	student	
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:					
or:				Is Not Null	

(c)

Field:	student: [student].[fname]+' '+[student].[lname]	grade	rubric
Table:	student	enroll	course
Sort:			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Criteria:		In ('A','A-')	= 'CSCI'
or:			

(d)

Query4

student

- stuid
- fname
- lname
- major
- minor
- ach
- advisor

enroll

- stuid
- classId
- grade
- n\_alerts

1 ← → 25

Join Properties

Left Table Name: student Right Table Name: enroll

Left Column Name: stuId Right Column Name: stuId

1: Only include rows where the joined fields from both tables are equal.  
 2: Include ALL records from 'student' and only those records from 'enroll' where the joined fields are equal.  
 3: Include ALL records from 'enroll' and only those records from 'student' where the joined fields are equal.

OK Cancel New

Field:	stuid	student: [student].[fname]+' '+[student].[lname]	classId	grade			
Table:	student		enroll	enroll			
Sort:							
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:	=[Enter student Id:]						
or:							