

Week 3 Workshop Assignment Project Exam Help

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A Steer to the partial Wattle News Portion to the partial for the Personal CECS teaching pause.

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Thank you again for providing us with your valuable feedback!

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Thank you again for providing us with your valuable feedback!

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CECS teaching pause.

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 You should not post any solutions/results/ideas/interpretations related to assessment items (including assignm

Wattle discussion for m. hat a did U_assist_property further clarification for this assignment.



Thank you again for providing us with your valuable feedback!

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- You should not post any solutions/results/ideas/interpretations related to assessment items (including assignm
- Wattle discussion ferrom: hat a call u_assist_properties of the control of the co
- 4 Here are our course representatives for COMP2400/6240 in S2 2021
 - Julian Crosby, Julian.Crosby@anu.edu.au
 - Yixin Liu, Yixin.Liu@anu.edu.au
 - Navdeep Gill, u7275100@anu.edu.au
 - Xueqi Lin, Xueqi.Lin@anu.edu.au



Outline

Assignment Project Exam Help Insert, Update, Delete Statements

V.

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Insert, Update, Delete Statements

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Relational Database State – Example

Association and atalogists a set of felation sough that Help all the relations satisfy the integrity constraints IC.

https://eduassistpro.github.

frankk@gmail.com

Add COMP100 Control Companies Compan

		ENROL		
StudentID	CourseNo	Semester	Status	EnrolDate
456	COMP2400	2016 S2	active	25/05/2016
458	COMP1130	2016 S1	active	20/02/2016
459	COMP2400	2016 S2	active	11/06/2016



Assignment Project Exam Help Dob Date, Email Varchar(100));

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Assignment Project Exam Help Dob Date, Email Varchar(100));

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- Wi
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- INSERT INTO STUDENT (StudentID) VALVAS ded; WeChat edu_assist_pr



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- INSERT INTO STUDENT (StudentID)

 VALVAS (450); WeChatedu_assist_property (StudentID)

 Yes. The values for Name, DoB and Email will be



- Wi
- IN https://eduassistpro.github.
- INSERT INTO STUDENT (StudentID)

 VALVAS (456); We Chat edu_assist_properties. The Values for Name, Dob and Email will be
- INSERT INTO STUDENT(Name, DoB, Email)
 VALUES ('John', '15/11/1998', 'john@gmail.com');



- Wi
- IN https://eduassistpro.github.
- INSERT INTO STUDENT (StudentID)

 VALVAS (456); We Chat edu_assist_properties. The Values for Name, Dob and Email will be
- INSERT INTO STUDENT(Name, DoB, Email)
 VALUES ('John', '15/11/1998', 'john@gmail.com');
 No. The primary key value cannot be NULL.



Update Statement – Example

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Name

StudentID

.whttps://eduassistpro.github.

DoB

Email

WHERE Student ID=456;
Add WeChat edu_assist_pr



Update Statement – Example

Assignment Project Exam Help

Name

https://eduassistpro.github.

DoB

Email

UPDATE STUDENT SET Name='Tom Lee', Em

StudentID

WHERE Student ID=456;
Add Wechter edu_assist_processing to the student identification of the stu

456	Tom Lee	25/01/1988	tom.lee@yahoo.com
458	Peter	23/05/1993	peter@gmail.com
459	Fran	11/09/1987	frankk@gmail.com



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STUDENT

DELETE FROM STUDENT WHERE StudentID=4



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11/09/1987

STUDENT

DELETE FROM STUDENT WHERE StudentID=4

459

Fran

Add

Wechsulent edu_assist_products

458 Peter 23/05/19

frankk@gmail.com



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• whttps://eduassistpro.github.

DELETE FROM STUDENT;



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• whttps://eduassistpro.github.

DELETE FROM STUDENT;



Assignment Project Exam Help

• whttps://eduassistpro.github.

DELETE FROM STUDENT;



The Table STUDENT is deleted.



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• whttps://eduassistpro.github.

DELETE FROM STUDENT;



The Table STUDENT is deleted

Note the difference between the Delete and Drop Table statements.



Assignment (student Due Reviews Student Descriptions) ON DELETE NO ACTION

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Add Vist Centro 25/01/198 edu_assist_pr

STUDENT

What will happen if we execute the following state

DELETE FROM STUDENT WHERE StudentID=456;



Assignment (Student D) represents student D. Help on Delete No Action

https://eduassistpro.github.

Add Vis e Peter 120 25/01/198 edu_assist_pr

What will happen if we execute the following state
 DELETE FROM STUDENT WHERE StudentID=456;

 The deletion of a student who has enrolled at least one course will throw out an error concerning the foreign key.



Assigned the following foreign key defined on Engol:
ON DELETE CASCADE

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STUDENT

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Assignment of the following foreign key defined on Export the foll

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STUDENT

What will happen if we execute the following state

DELETE FROM STUDENT WHERE StudentID=456;



Assignment of the following foreign key defined on Enfol: ON DELETE CASCADE Consider the following foreign key defined on Enfol: ON DELETE CASCADE

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STUDENT

Add Vis Con 25,014198 CU assist pr

 What will happen if we execute the following state DELETE FROM STUDENT WHERE StudentID=456;

We would have ENROL below after deleting the student 456.

StudentID	<u>CourseNo</u>	Semester	Status	EnrolDate
458	COMP1130	2016 S1	active	25/02/2016



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```
SELECT attribute_list
FROM table_list

WHEN Condition Chart equipment assist_property attribute_list [HAVE group to make the condition of the
```





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StudentID
458
459





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Select Statement

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Select Statement

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SELECT * FROM STUDENT WHERE lower(Name) = 'peter';

STUDENT					
StudentID	Name	DoB	Email		
458	peter	23/05/1993	peter@gmail.com		
460	Peter	03/09/1992	Peter@Github.com		



Select + Group By

Assignment rops to steed to be attributed in the list.

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Add WeChat edu_assist_pr



Select + Group By

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AVG returns the average of argument values

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- MAX returns the maximum value of the argu
- SUM returns the sum of the argument values



Select + Group By

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- https://eduassistpro.github.
 - AVG returns the average of argument values
 - Add Wechat edu_assist_pr
 - MAX returns the maximum value of the argu
 - SUM returns the sum of the argument values
- We can use **HAVING** condition to add the condition on the groups.



Aggregate Functions – Example

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Aggregate Functions – Example

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Aggregate Functions – Example

Assignment Project Fixam, Help minimum unit in COURSE

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SELECT COUNTING THE QUERY result will be:

COUNT	MAX
3	6



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· what who provided that edu assist pr

SELECT ...
FROM STUDY
Group By StudentID;



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StudentID StudentID CourseNo Hours

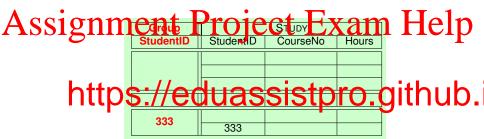
https://eduassistpro.github.

333

· what who provided what Lecture assist pr

SELECT ...
FROM STUDY
Group By StudentID;

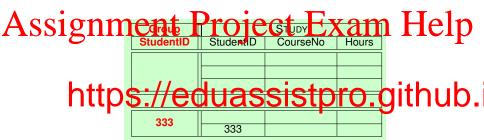




· What the third where the contract of the con

SELECT StudentID FROM STUDY Group By StudentID;



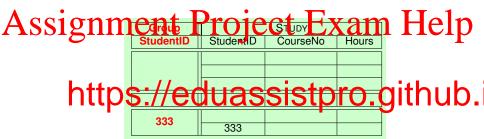


· What the the contract the contract that the contract

SELECT StudentID FROM STUDY Group By StudentID;

111
222
333





· What the the contract the contract that the contract

SELECT StudentID, COUNT(*)
FROM STUDY
Group By StudentID;



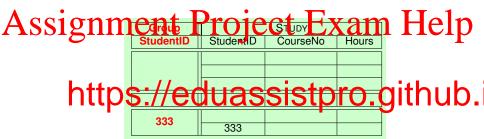
Assignment Project Exam Help https://eduassistpro.github.

· What the challenge of the contract of the co

SELECT StudentID, COUNT(*)
FROM STUDY
Group By StudentID;

	Т
111	3
222	1
333	2





· What the the contract the contract that the contract

SELECT StudentID, MAX(hours) FROM STUDY Group By StudentID;



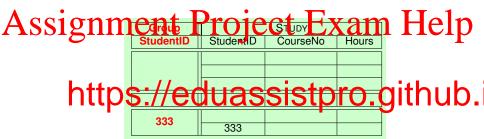
Assignment Project Exam Help https://eduassistpro.github.

· What the third where the state of the contract of the contra

SELECT StudentID, MAX(hours) FROM STUDY Group By StudentID;

111	120	
222	115	
333	130	





· What the the contract the contract that the contract

SELECT StudentID, COUNT(StudentID)
FROM STUDY
Group By StudentID;



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· What the third where the state of the contract of the contra

SELECT StudentID, COUNT(StudentID)
FROM STUDY
Group By StudentID;

	Т
111	3
222	1
333	2



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StudentID StudentID CourseNo Hours

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333 333 STAT2001 120

· what the compate of the last sist property of the last sist property of the last sist of

SELECT StudentID, CourseNo FROM STUDY Group By StudentID;



Assignment Project Exam Help
StudentID StudentID CourseNo Hours

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SELECT StudentID, CourseNo FROM STUDY Group By StudentID;

Error Message.



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StudentID StudentID CourseNo Hours

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· what de with the compate of the last sist pr

STAT2001

120

SELECT *
FROM STUDY
Group By StudentID;

333



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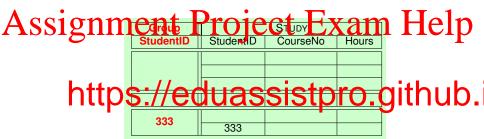
· what the contract c

SELECT *
FROM STUDY
Group By StudentID;

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Error Message

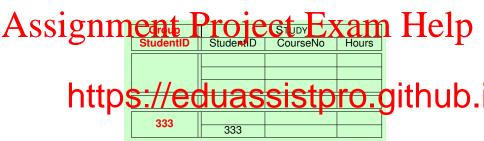




· Whatis the devil whe to the tend of the state of the contract of the contrac

SELECT COUNT(*)
FROM STUDY
Group By StudentID;





· Whatis the deal was ist_property assist_property and the contract of the con

SELECT COUNT(*)
FROM STUDY
Group By StudentID;

3
1
2



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· what who provided that edu_assist_pr

SELECT ...
FROM STUDY
Group By CourseNo;



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CourseNo StudentID CourseNo Hours

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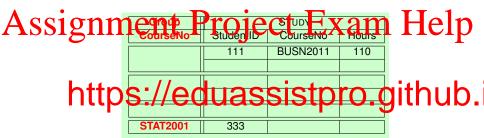
ECON2102 111 ECON2102 120

STAT2001 333

What Add appear or the Collowing St. Let Clu_assist_pro

SELECT ...
FROM STUDY
Group By CourseNo;





· what the dull where hat edu_assist_pr

SELECT CourseNo, COUNT(*)
FROM Study
Group By CourseNo;





· What had where hat edu_assist_pr

SELECT CourseNo, COUNT(*)
FROM STUDY
Group By CourseNo;

	Т
BUSN2011	2
COMP2400	2
ECON2102	1
STAT2001	1



> SELECT CourseNo, Hours FROM Study Group By CourseNo;



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CourseNo StudentID CourseNo Hours

https://ecuassistpro.github.

ECON2102 111 ECON2102 120

STAT2001 333

What becault by the Course Rould State Colous assist_pro

SELECT CourseNo, Hours FROM STUDY Group By CourseNo;

Error Message.



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Course No Stude Hours

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• what he will attend un assist_pr

SELECT CourseNo FROM STUDY Group By CourseNo Having MAX(Hours) > 120;



Assignn	CourseNo	TO C	CourseNo	Hours	Help
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intep	STAT2001	333			

what he what where the control of the control

SELECT CourseNo FROM STUDY Group By CourseNo Having MAX(Hours) > 120;

CourseNo BUSN2011



Assignn	rent I	roie	CSTUDYEX	am	Help
\mathcal{O}	CourseNo	StudentID	CourseNo	Hours	I
		111	BUSN2011	110	
httn	c://oc	tuae	cietn	ro	github.
πιιρ	<u>5.//EU</u>	<u>iuas</u>	<u> </u>	IO.Ų	jiu iub.
•			•		
	STAT2001	333			

· what the dut Whe to least on a saist pr

SELECT CourseNo FROM STUDY Group By CourseNo Having COUNT(*) > 1;



Assignn	nent I	roie	CS UDV EX	am	Help
\mathcal{O}	CourseNo	StudentID	CourseNo	Hours	1
		111	BUSN2011	110	
http	6.//00	tuae	cietn	ro	github.
πιιρ	<u>5.//EU</u>	<u>iuas</u>	<u> </u>	IU.Ų	jili lub.
•			•		
	STAT2001	333			

what the deliver where the deliver what the deliver where the

SELECT CourseNo FROM STUDY Group By CourseNo Having COUNT(*) > 1;





A Bunch of Tables

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A Bunch of Tables

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Set Operations

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- shttps://eduassistpro.github.
- Set operations result in return of a relation of tuples (n Add WeChat edu_assist_pr
- Set operations apply to relations that have the same attribute types appearing in the same order.



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What is the result for the following SQL query?

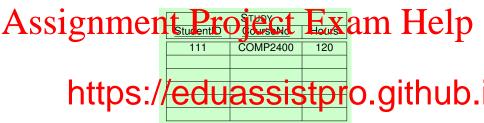
Add We Chat edu_assist_properties of the study of the stu

WHERE CourseNo='COMP2400'

UNION

SELECT StudentID FROM STUDY WHERE CourseNo='ECON2102':





What is the result for the following SQL query?

Add WeChat edu_assist_pr

WHERE CourseNo='COMP2400'

UNION

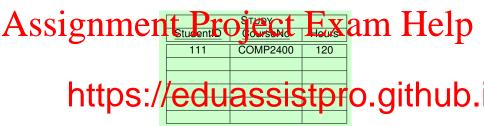
SELECT StudentID FROM STUDY WHERE CourseNo='ECON2102':

222

UNION

StudentID 111





• What is the result for the following SQL query?

Add WeChat edu_assist_pr

SELECT StudentID FROM STUDY

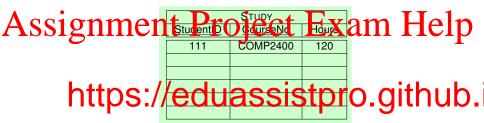
WHERE CourseNo='COMP2400'

UNION

SELECT StudentID FROM STUDY WHERE CourseNo='ECON2102':

111 222





What is the result for the following SQL query?

serect ddd We Chat edu_assist_pr

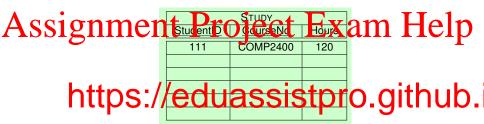
WHERE StudentID=111

EXCEPT

SELECT CourseNo FROM Study

WHERE StudentID=222;





What is the result for the following SQL query?

VeChat edu<u>ass</u>ist pr WHERE StudentID=111 ECON2102

EXCEPT

SELECT CourseNo FROM STUDY

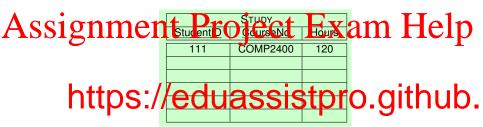
WHERE StudentID=222;

EXCEPT

CourseNo

COMP2400





What is the result for the following SQL query?

SELECT COURSEN OF TOPY hat edu_assist_pr

WHERE StudentID=111

EXCEPT

SELECT CourseNo FROM STUDY

WHERE StudentID=222;



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What is the result for the following SQL query?

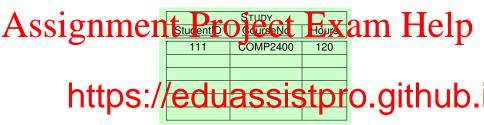
 $\operatorname{Add}_{\operatorname{SELECT}}$ $\operatorname{Add}_{\operatorname{SELECT}}$ $\operatorname{Add}_{\operatorname{FROM}}$ FROM $\operatorname{F$

WHERE StudentID=111

EXCEPT

SELECT StudentID FROM STUDY WHERE CourseNo='ECON2102';





What is the result for the following SQL query?

VeChat edu_assist_pr WHERE StudentID=111 ECON2102

EXCEPT

SELECT StudentID FROM STUDY

WHERE CourseNo='ECON2102';

EXCEPT

StudentID 111



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What is the result for the following SQL query?

SELECT COURSEN. FROM STORY PART Edu_assist_pr

WHERE StudentID=111

EXCEPT

SELECT StudentID FROM STUDY WHERE CourseNo='ECON2102':

ERROR MESSAGE



Join Operations

Assignment Paroject Exam Help to use join operations.

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Add WeChat edu_assist_pr





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• What would happen for the following INNER JOIN __assist_pr

FROM COURSE INNER JOIN ENROL ON COURSE. No=ENROL. CourseNo;



Assignment No Professe Lyi am Help BUSN2011 Management Accounting 6 BUSN2011 Management Accounting 6 BUSN2011 Management Accounting 6 BUSN2011 Management Accounting 6

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• What would happen for the collection of the co

FROM COURSE INNER JOIN ENROL ON COURSE. No=ENROL. CourseNo;

Course			ENROL				
No	Cname	CourseNo	Semester	Status			
COMP2400	Relational Databases	6	222	COMP2400	2016 S1	active	
COMP2400	Relational Databases	6	111	COMP2400	2016 S2	active	
BUSN2011	Management Accounting	6	111	BUSN2011	2016 S1	active	



Assignment No Professe Lyi am Help BUSN2011 Management Accounting 6 BUSN2011 Management Accounting 6 BUSN2011 Management Accounting 6 BUSN2011 Management Accounting 6

https://eduassistpro.github.

• What is the result to the following INNER JOIN BEAT SELECT COURSE. NO CONTROL OF THE COURSE. NO CONTROL OF THE COURSE OF THE C

FROM COURSE INNER JOIN ENROL ON COURSE. No=ENROL. CourseNo;

Course			ENROL				
No	Cname	Unit	StudentID	CourseNo	Semester	Status	
COMP2400	Relational Databases	6	222	COMP2400	2016 S1	active	
COMP2400	Relational Databases	6	111	COMP2400	2016 S2	active	
BUSN2011	Management Accounting	6	111	BUSN2011	2016 S1	active	





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• What is the resulting the following INNER JOIN stat

SELECT COURSE.NO

FROM COURSE INNER JOIN ENROL ON COURSE.No=ENROL.CourseNo;





Left Join - Example







Left Join – Example

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• What would happen for the following LEFT JOIN st

SELECT OF WECHAT COURSE LEFT JOIN ENROL ON COUR

FROM COURSE LEFT JOIN ENROL ON COUR

	Course			ENROL				
	No	Cname	Unit	StudentID	CourseNo	Semester	Status	
	COMP2400	Relational Databases	6	222	COMP2400	2016 S1	active	
	COMP2400	Relational Databases	6	111	COMP2400	2016 S2	active	
	BUSN2011	Management Accounting	6	111	BUSN2011	2016 S1	active	
ľ	ECON2102	Macroeconomics	6	NULL	NULL	NULL	NULL	



Left Join – Example

Assignment No Professional Assignment Assignment Accounting 6 BUSING Management Accounting 6 ECON 2102 Macroeconomics 6

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• What is the result for the following LEFT JOIN state

SELECT COURSE LEFT JOIN ENROL ON COUR

FROM COURSE LEFT JOIN ENROL ON COUR

	Course			ENROL				
	No	No Cname Unit		StudentID	CourseNo	Semester	Status	
	COMP2400	Relational Databases	6	222	COMP2400	2016 S1	active	
	COMP2400	Relational Databases	6	111	COMP2400	2016 S2	active	
	BUSN2011	Management Accounting	6	111	BUSN2011	2016 S1	active	
П	ECON2102	Macroeconomics	6	NULL	NULL	NULL	NULL	



Left Join – Example



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• What is the result for the following LEFT JOIN state

SELECT GUESE . N. V. C. D. A. COUR.

FROM COURSE LEFT JOIN ENROL ON COUR.

No COMP2400 COMP2400 BUSN2011 ECON2102



Natural Join

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- https://eduassistpro.github.
- In a natural join, two relations are joined implicitly by c of the same names in both relations.

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 A natural join retains all the data of the two tables for only the matched rows, without duplication.





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What would happen for the following NATURAL JULIANS SIST_PI

FROM Course NATURAL JOIN ENROL;



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• What would happen for the College and NATURALIJU assist_pr

FROM COURSE NATURAL JOIN ENROL;

	Course		ENROL			
CourseNo	Cname	Unit	StudentID	Semester	Status	
COMP2400	Relational Databases	6	222	2016 S1	active	
COMP2400	Relational Databases	6	111	2016 S2	active	
BUSN2011	Management Accounting	6	111	2016 S1	active	



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What is the result for the following NATURAL JOIN SELECT COURSENO WE CHAT ECU_ASSIST_PI

FROM COURSE NATURAL JOIN ENROL;

	Course		ENROL			
CourseNo	Cname	Unit	StudentID	Semester	Status	
COMP2400	Relational Databases	6	222	2016 S1	active	
COMP2400	Relational Databases	6	111	2016 S2	active	
BUSN2011	Management Accounting	6	111	2016 S1	active	





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• What is the result for the following NATURAL JOIN SELECT COURSE NATURAL JOIN ENROL;

CourseNo COMP2400 COMP2400 BUSN2011





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• What is the result of the following NATURAL ON SELECT *
FROM COURSE NATURAL JOIN ENROL;



Assignment Professe Exam Help COMP2400 Relational Databases BUSN2011 Management Accounting 6 ECON2102 Macroeconomics 6

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• What is the result of the following NATURAL GIN_assist_pr

FROM Course NATURAL JOIN ENROL;

If there are no matching attributes in two tables for NATURAL JOIN,

SELECT *

FROM Course, Enrol;



Assignment Project Exam Help COURSENO Felational 6 BUSN2011 Management Accounting 6

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what he wild in the divide assist_predive assi

SELECT *

FROM COURSE NATURAL JOIN ENROL ON COURSE.CourseNo=ENROL.CourseNo;



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· What the low in the Colu_assist_pr

SELECT *

FROM COURSE NATURAL JOIN ENROL ON COURSE.CourseNo=ENROL.CourseNo;

ERROR MESSAGE because a NATURAL JOIN **implicitly** compares all attributes of the same names in two table.



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- List Al information of structures who have employed in _assist_processing _structure of these course of the course to of these course of the course of the
 - Use SELECT + FROM (Cartesian Product) + WHERE
 - Use SELECT + FROM (INNER JOIN) + ON
 - Use SELECT + FROM (INNER JOIN) + ON + WHERE
 - Use SELECT + FROM (NATURAL JOIN) + WHERE



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- CourseNo='X' and the CourseNo of these course
- * (1) Use SELECT WE Chartesian Product) two assist_product of the control of the



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- https://eduassistpro.github.
- CourseNo='X' and the CourseNo of these course
- (1) Use SELECT FROM (Cartesian Product) W ASELECT STUDENT CHARGE COURS EDUCATE OF THE SECOND CARTESIAN PRODUCT OF THE SECOND C

```
FROM STUDENT, ENROL
WHERE (STUDENT.StudentID=ENROL.StudentID)
AND (ENROL.CourseNo = 'X');
```



Assignment Project Exam Help

- https://eduassistpro.github.
 - CourseNo='X' and the CourseNo of these course
- * Add We Chat edu_assist_pr



Assignment Project Exam Help

- https://eduassistpro.github.
- CourseNo='X' and the CourseNo of these course
- (2) Use SELECT FROM (INNER JOIN) + ON LASSIST_PI

```
FROM STUDENT INNER JOIN ENROL
ON (STUDENT.StudentID=ENROL.StudentID)
AND (ENROL.CourseNo = 'X');
```



Assignment Project Exam Help

https://eduassistpro.github.

- Li
 CourseNo='X' and the CourseNo of these course
- * (3) UN Add We Chat edu_assist_pr



Assignment Project Exam Help

https://eduassistpro.github.

- CourseNo='X' and the CourseNo of these course
- (3) Use STLECT TO BOM (TIMER JOIN) + ON WH ASSIST PROBLEM STUDENT: *, ENROLL COURS

FROM STUDENT INNER JOIN ENROL
ON STUDENT.StudentID=ENROL.StudentID
WHERE ENROL.CourseNo = 'X';



Assignment Project Exam Help

https://eduassistpro.github.

- CourseNo='X' and the CourseNo of these course
- * (4) Use SELECT WE Chat edu_assist_pr



Assignment Project Exam Help

- https://eduassistpro.github.
- CourseNo='X' and the CourseNo of these course
- (4) Use SELECT FROM (NATURAL JOIN) + WH ASSIST_PROM_SELECT FROM (NATURAL JOIN) + WH ASSIST_PROM_SELECT FROM (NATURAL JOIN) + WH

FROM STUDENT NATURAL JOIN ENR WHERE ENROL.CourseNo = 'X';



Subqueries

Assignificant twe astemplar takes usually non-unition with partial establishment alliases and renaming, exist only for the query).

- S
- shttps://eduassistpro.github.
 - In subquery tests if tuple occurs in the temporary table of the subquery.
 - Axato und we when atte edu_assist_pr
 - using ALL, SOME or ANY before a subquery makes subqueries usable in comparison formulae (SOME and ANY are interchangeable).
 - in all these cases the condition involving the subquery can be negated using a preceding NOT.



Assignment Project Exam Help

https://eduassistpro.github.

CourseNo='X' and the CourseNo of these course

ASELICT STUDING * CENTL. COURS COULD COURS COURS COULD COURS COULD COURS COULD COURS COULD COURS COULD COURS COURS COULD COURS COURS COULD COURS COULD COURS COULD COURS COULD COURS COULD COURS COURS COULD COURS COURS COULD COURS COULD COURS COULD COURS COULD COURS COULD COURS COURS COULD COURS COURS COULD COURS COURS COULD COULD COURS COULD COURS COULD COURS COULD COUNT COURS COULD COULD COURS COULD COUNT COUNT COURS COULD COUNT COUNT

 Now if we want to list all information of students who have enrolled in a course that has less than 10 students enrolled and the CourseNo of these courses.



Assignment Project Example Help than 10 students enrolled and the CourseNo of these courses.

https://eduassistpro.github.



Assignment Project Exampled Help than 10 students enrolled and the CourseNo of these courses.

https://eduassistpro.github.



Assignment Project Example Help than 10 students enrolled and the CourseNo of these courses.

https://eduassistpro.github.

GROUP BY CourseNo



Assignment Project Example Help than 10 students enrolled and the CourseNo of these courses.

https://eduassistpro.github.

GROUP BY CourseNo

Ais lightorn at order tudens who recell assist processions and the Course No of these c



Assignment Project Exampled Project Assignment Help than 10 students enrolled and the CourseNo of these courses.

https://eduassistpro.github.

GROUP BY CourseNo

Aist lin formation tudins who reserve assist_processes and the CourseNo of these c

SELECT Student.*, Enrol.CourseNo FROM STUDENT NATURAL JOIN ENROL WHERE Enrol.CourseNo = 'X':



Assignment Project Exam Help

than 10 students enrolled and the CourseNo of these courses.

https://eduassistpro.github.

FROM ENROL e



Assignment Project Exam Help

than 10 students enrolled and the CourseNo of these courses.

https://eduassistpro.github.

FROM ENROL e

Add WeChat edu_assist_pr

Why do we use aliases e1 and e2 for ENROL?



Assignment Project Exam Help

than 10 students enrolled and the CourseNo of these courses.

https://eduassistpro.github.

FROM ENROL 6
GROUP BY e2

Add WeChat edu_assist_pr

Why do we use aliases e1 and e2 for ENROL?
 Distinguish two ENROL tables.



Assignment Project Exam Help

than 10 students enrolled and the CourseNo of these courses.

https://eduassistpro.github.

FROM ENROL e
GROUP BY e2



Assignment Project Exam Help

than 10 students enrolled and the CourseNo of these courses.

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FROM ENROL e
GROUP BY e2

Add WeChat edu_assist_pr

Is the above query correct?



Assignment Project Exam Help

than 10 students enrolled and the CourseNo of these courses.

https://eduassistpro.github.

FROM ENROL e

Add WeChat edu_assist_pr

Is the above query correct?

No. IN subquery tests if tuple occurs in the temporary table of the subquery.





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WHERE EXISTS (SELECT *

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WHERE EXISTS (SELECT *

Add Ween edu_assist_p

1st tuple of STUDENT, EXISTS

2st tuple of STUDENT, EXISTS

StudentID	CourseNo	Semester
222	COMP2400	2016 S1

COMP2400

The above query (returning 2) is correct!

64/81

2016 S1

2016 S2





https://eduassistpro.github.

WHERE EXISTS (SELECT *

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https://eduassistpro.github.

WHERE EXISTS (SELECT *

Add Ween student state edu_assist_pr

1st tuple in ENROL, EXISTS 2nd tuple in ENROL, EXISTS 3rd tuple in ENROL, EXISTS

StudentID	Name
222	Emily
StudentID	Name
111	Tom

The above query (returning 3 instead of 2) is incorrect!





https://eduassistpro.github.

WHERE EXISTS (SELECT *

FROM ENROL e

Addown echat edu_assist_pr

FROM STUDENT S
WHERE EXISTS (SELECT StudentID
FROM ENROL e
WHERE s.StudentID=e.StudentID):





https://eduassistpro.github.

WHERE EXISTS (SELECT *

FROM ENROL e

Addown echat edu_assist_pr

FROM STUDENT s
WHERE EXISTS (SELECT StudentID

FROM ENROL e

WHERE s.StudentID=e.StudentID);

 Both queries are correct! EXISTS subquery tests whether the temporary table of the subquery is empty or not.

66/81



Assistant Projectivently Carety 19mes er elp | Assistant | Projectivently | Carety 19mes er elp | 222 | Emily | 222 | COMP2400 | 2016 S1 | | 333 | John | 111 | COMP2400 | 2016 S2 |

°https://eduassistpro.github.

FROM STUDENT, ENROL

WHERE STUDENT.StudentID=ENROL.



Assistant Projectivently Carety 19mes er elp | Assistant | Projectivently | Carety 19mes er elp | 222 | Emily | 222 | COMP2400 | 2016 S1 | | 333 | John | 111 | COMP2400 | 2016 S2 |

* https://eduassistpro.github.

FROM STUDENT, ENROL

WHERE STUDENT.StudentID=ENROL.

StudentID Name		StudentID		
111	Tom	111	BUSN2011	2016 S1
111	Tom	111	COMP2400	2016 S2
222	Emily	222	COMP2400	2016 S1





* https://eduassistpro.github.

FROM STUDENT, ENROL

WHERE STUDENT.StudentID=ENROL.

Add WeChat edu_assist_pr

StudentID	Name	StudentID		
111	Tom	111	BUSN2011	2016 S1
111	Tom	111	COMP2400	2016 S2
222	Emily	222	COMP2400	2016 S1

The above query is incorrect!



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*°https://eduassistpro.github.

FROM STUDENT, ENROL

WHERE STUDENT.StudentID=ENROL.

Add WeChat edu_assist_pr

StudentID	Name	StudentID		
111	Tom	111	BUSN2011	2016 S1
111	Tom	111	COMP2400	2016 S2
222	Emily	222	COMP2400	2016 S1

The above query is incorrect!
 We should use COUNT(DISTINCT StudentID) instead of COUNT(*).



Assignment Project Exam Help Studentild Codes No Semester 111 Tom 222 Emily Project Exam Help Studentild Codes No Semester 111 BUSN 2011 2016 S1 222 COMP 2400 2016 S1 16 S2

• ° https://eduassistpro.github.

```
FROM STUDENT S INNER JOIN ENRO
ON s.StudentID=e.StudentID;
Add WeChat edu_assist_pr
```



Assignment Project Exam Help Studentild Codes No Semester 111 Tom 222 Emily Project Exam Help Studentild Codes No Semester 111 BUSN 2011 2016 S1 222 COMP 2400 2016 S1 16 S2

• https://eduassistpro.github.

FROM STUDENT s INNER JOIN ENRO
ON s.StudentID=e.StudentID;

StudentID	Name	StudentID		
111	Tom	111		
111	Tom	111	COMP2400	2016 S2
222	Emily	222	COMP2400	2016 S1



Assignment Project Exam Help Studentill Codisens Semester 111 Tom 222 Emily Project Exam Help Studentill Codisens Semester 111 BUSN2011 2016 S1 222 COMP2400 2016 S1 16 S2

• https://eduassistpro.github.

FROM STUDENT'S INNER JOIN ENRO ON s.StudentID=e.StudentID; edu_assist_pr StudentID Name StudentID 111 Tom 111 111 111 COMP2400 2016 S2 Tom 222 222 COMP2400 2016 S1 Emily

The above query is incorrect!



Assignment Project Exam Help Studentill Codrsens Semester 111 Tom 222 Emily Project Exam Help Studentill Codrsens Semester 111 BUSN2011 2016 S1 222 COMP2400 2016 S1 16 S2

• ° https://eduassistpro.github.

FROM STUDENT S INNER JOIN ENRO ON s.StydentID=e.StydentID; edu_assist_pr StudentID Name 111 Tom 111 111 111 COMP2400 2016 S2 Tom 222 222 COMP2400 2016 S1 Emily

The above query is incorrect!
 We should use COUNT(DISTINCT StudentID) instead of COUNT(*).



Assignment Project Exam Help

					200.120		
						16 S1	
						16 S2	
	1-11		//				
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	IIII	70. /	/ Jaua			giti	IUN

SELECT COUNT(*)

FROM STUDENT NATURAL JOIN ENRO



Assignment Project Exam Help

Emily

StudentID	Name
111	Tom

Studentib	Courseivo	Semester	
111	BUSN2011	2016 S1	
		16 S1	
		16 S2	

https://eduassistpro.github.

SELECT COUNT(*)

FROM STUDENT NATURAL JOIN ENRO

Add

1	Stude UD	ST D M N an e	t.ed	u a	ıssist	pr
	111	Tom	BU			
	111	Tom	COMP2400	2016 S2		

2016 S1

COMP2400



Assignment Project Exam Help

StudentID Name

111 BUSN2011 2016 S1 16 S1 16 S2

https://eduassistpro.github.

SELECT COUNT(*)

FROM STUDENT NATURAL JOIN ENRO

Add

Stude	ST D INT	t.ea	u a	ISS
111	Tom	BU		
111	Tom	COMP2400	2016 S2	
222	Emily	COMP2400	2016 S1	

• The above query is incorrect!



Assignment Project Exam Help

• chttps://eduassistpro.github.

111

COMP2400

SELECT COUNT(*)

Tom

FROM STUDENT NATURAL JOIN ENRO

Add

111

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	VStudel サD	Nan e	し し	<u>u_a</u>	$olot_{-}$	וע
	111	Tom	BU			•
	111	Tom	COMP2400	2016 S2		

2016 S1

BUSN2011

2016 S1

The above query is incorrect!
 We should use COUNT(DISTINCT StudentID) instead of COUNT(*).

Emily



A Simple Solution – Same Example

Assignment Project Exam Help

	STUDENT		ENROL			
	Name			CourseNo	Semester	
					16 S1	
		,, .			16 S1	
	httpc:		CICT	nro	16 42 d	Nich
	HILLOS./	//eduas	ออเอเ	DIU.	ull	iuu.
С				l	9:3:	

SELECT COUNT(DISTINCT StudentID)



A Simple Solution – Same Example

Assignment Project Exam Help

	STUDENT					
	Name			CourseNo	Semester	
					16 S1	
					16 S1	
	Stoc		CICT	nro	~16 42 ×	hib
	HILLUS.	/ /eduas	5151	DIO.	UIL	IUU.
С					9	

SELECT COUNT(DISTINCT StudentID)

• The above query scorect! hat edu_assist_pr



A Simple Solution - Same Example

Assignment Project Exam Help

	STUDE	:NI		ENROL					
		Name					CourseNo	Semester	
								16 S1	
					_			16 S1	
	httr	· O ·	$II \cap A$	1100		Ct	nro	~1642	Nich
		J5./	760	luas	2	51	pro.	uiti	เนบ.
C		• • • • • • • • • • • • • • • • • • • •	,				· · · ·	9.4.	

SELECT COUNT(DISTINCT StudentID)

• The above query is correct: hat edu_assist_pr

Is this the shortest query to answer the above question?
 Refer to the last slide on "[Credit Cookie] The Shortest Code/Program?".



Subqueries – More Examples

Assisping antiverse as a contemporary of suggester 2 2016

https://eduassistpro.github.



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```
WHERE Semester = '2016 S2'
GROUP BY CourseNo;
```



Assignment Project of Taxon Help

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https://eduassistpro.github.

```
WHERE Semester = '2016 S2'
GROUP BY CourseNo;
```

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https://eduassistpro.github.

```
WHERE Semester = '2016 S2'
GROUP BY CourseNo;
```

GROUP BY CourseNo);

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```
SELECT MAX(NoOfStudents)
FROM (SELECT CourseNo, COUNT(*) AS NoOfStudents
    FROM ENROL
    WHERE Semester = '2016 S2'
```



Subqueries – More Complicated

Assistante Project Examole Plp Semester 2 2016

https://eduassistpro.github.

```
WHERE e1.Semester = '201
GROUP BY e1.CourseNo) e

WHERE e NoofAthder (s = 1.2 the CourseNo, COUNT(*) AS NoOfStudents
FROM (SELECT e1.CourseNo, COUNT(*) AS NoOfStudents
FROM ENROL e1
WHERE e1.Semester = '2016 S2'
GROUP BY e1.CourseNo) e2);
```



Subqueries – More Complicated

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Subqueries – More Complicated

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WHERE e1.Semester = '201

Add. We Chat edu_assist_pr

FROM Sem2Students e
WHERE e.NoOfStudents =

(SELECT MAX(e2.NoOfStudents)

FROM Sem2Students e2);

1https://www.postgresql.org/docs/current/static/queries-with.html



333

ECON2102

2016 S2

Subqueries – More Complicated

Assignment Project Exame Help

Input: https://eduassistpro.github.

		ENROL					
	StudentID	CourseNo	Semester				
	111	BU SN 101/1	7016 S	04		againt	
		CONTRITUON	016 S	71	eau	assist	
-	1 11	COMP2400	2010 02	u	-	_400.01_	
	111	ECON2102	2016 S2				-
	222	BUSN2011	2016 S2				
	222	COMP2400	2016 S2				
	333	BUSN2011	2016 S2				
	333	COMP2400	2016 S2				



333

333

COMP2400

ECON2102

2016 S2

2016 S2

Subqueries – More Complicated

Assignment Project Examulelp

Input: https://eduassistpro.github.

		Enrol						
	StudentID	CourseNo	Semester		_			
	111	BU \$N 101/1	7016 S	~ 4			~ +	1
		CONTRIVOO	016 S	71	ean	ass	SI	
4		COMP2400	2016 Sz	ut	OGG.			י אַ
	111	ECON2102	2016 S2					•
	222	BUSN2011	2016 S2					
	222	COMP2400	2016 S2					
	333	BUSN2011	2016 S2					



A SSIscripted the hare rices that have rices that the property of the property

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A SSI squither the strat have rices usents enrolled Xarial Past Ing the p course in Semester 2 2016

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```
WHERE e1.Semester = '201

GROUP BY e1.CourseNo) e

WHERE e1.Semester = '201

ANY (SELECT e2.Nobistudents

FROM (SELECT e1.CourseNo, COUNT(*) AS NoOfStudents

FROM ENROL e1

WHERE e1.Semester = '2016 S2'

GROUP BY e1.CourseNo) e2);
```



Assignment Project Exam Help List all the courses that have more students enrolled than at least one other

CO

https://eduassistpro.github.



Assignment Project Exam Help List all the courses that have more students enrolled than at least one other

List all the courses that have more students enrolled than at least one other co

https://eduassistpro.github.

```
FROM ENROL e1
WHERE e1.Semester = '201
Add COUNTY of Course No
FROM Sem2Students e
WHERE e.NoOfStudents
```

> ANY (SELECT e2.NoOfStudents FROM Sem2Students e2);



333

ECON2102

2016 S2

Subqueries – More Complicated

Assignment have roos just the transmit Help course in Semester 2 2016

Input: https://eduassistpro.github.

		ENROL					
	StudentID	CourseNo	Semester				
	111	BU \$N 101/1	7016 6	04		o o o i o t	~ *
		COLVATION	016 S	71	eau	assist	
-	111	COMP2400	2010 32	u	-	_400.01_	'
	111	ECON2102	2016 S2				-
	222	BUSN2011	2016 S2				
	222	COMP2400	2016 S2				
	333	BUSN2011	2016 S2				
	333	COMP2400	2016 S2				



333

333

COMP2400

ECON2102

2016 S2

2016 S2

Subqueries – More Complicated

Assignment have roos justs three Assignment Help course in Semester 2 2016

Input: https://eduassistpro.github.

StudentID	ENROL CourseNo BUSN 201/I CONT 1/00 COMP2400	Semester 016 S 016 S 2016 S2	at	edu	ass	ist	pr
111	ECON2102	2016 S2					•
222	BUSN2011	2016 S2					
222	COMP2400	2016 S2					
333	BUSN2011	2016 S2					



Assignment Project Exam Help

* https://eduassistpro.github.



Assignment Project Exam Help

- * https://eduassistpro.githiub.
 - List the students' IDs and the corresponding number of enrolled courses in Semester 2 2016



Assignment Project Exam Help

- https://eduassistpro.githiub.
 - List the students' IDs and the corresponding number of enrolled courses in Semester 2 2016

```
Add a sist_property and the sist_property an
```

```
WHERE e.Semester = '2016 S2
GROUP BY e.StudentID;
```



As Seaester Policy Indian early berog Tourses they are ended to the policy of the season of the seas

https://eduassistpro.github.



As See desired by 16 and the number of sources they are entitled in. Help

SELECT s.StudentID, s.Name, ne.NoOfEnrols

https://eduassistpro.github.

ON (s.StudentID = ne.StudentID) AND (ne



A S Seigester P 21 62 and the hurber of courses they are cold led in T C D

SELECT s.StudentID, s.Name, ne.NoOfEnrols

https://eduassistpro.github.

```
ON (s.StudentID = ne.StudentID) AND (ne
```

Addes As Chatwedu_assist_pr

WHERE e.Semester = '2016 S2'

GROUP BY e.StudentID)

SELECT s.StudentID, s.Name, ne.NoOfEnrols

FROM STUDENT'S INNER JOIN StudEnrols ne

ON (s.StudentID = ne.StudentID) AND (ne.NoOfEnrols < 4);</pre>



Assisting that drames we treunter-Into Kod 140 burses 12 p. Semester 2 2016, and the number of courses they are enrolled in.



STUDENT						
StudentID	Name					
111	Tom					
222	Emily					
333	John					



Assisting the part of the context of



STUDENT					
StudentID	Name				
111	Tom				
222	Emily				
333	John				



[Credit Cookie] The Shortest Code/Program?

As Struggle I level of the problem solving principle that "entities should not be 1p

https://eduassistpro.github.



[Credit Cookie] The Shortest Code/Program?

As Shuttble I law creses: It is the problem-solving principle that "entities should not be 1p

https://eduassistpro.github.

The minimum description length of a data set (i.e., K cannot be computed. Add WeChat edu_assist_pr