



Assignment Project Exam Help

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NoSQL Test

Assignment Project Exam Help

- T1 <https://eduassistpro.github.io>
- The NoSQL results will be released on 29 October (Friday).
- Special Drop-in Session: 2-3 pm (Tuesday) 2 Nov

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Final Exam

Assignment Project Exam Help

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Final Exam

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Time:



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Final Exam

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Time:



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- **Venue:** Online Wattle Exam

Refer to the following website for the final exam time

<https://exams.anu.edu>

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Final Exam

Assignment Project Exam Help

Time:



<https://eduassistpro.github.io>

- **Venue:** Online Wattle Exam

Refer to the following website for the final exam time

<https://exams.anu.edu>

- Application for deferred-examinations:
<https://www.anu.edu.au/students/program-administration/assessments-exams/deferred-examinations>



Importance of Final Exam

Assignment Project Exam Help

5%

Quizzes and Labs

Best 6 out of 10 quizzes (0.5% ×

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5%

No SQL test

An online test a

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55%

Final exam

The final exam will take place on 8 November 2021 .



Final Exam

Assignment Project Exam Help

- It is 150 minutes (two and a half hours) long.

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Final Exam

Assignment Project Exam Help

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- It c

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Final Exam

Assignment Project Exam Help

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- It c

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- at least 40% in the final examination (i.

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Final Exam

Assignment Project Exam Help

- It is 150 minutes (two and a half hours) long.

- It c

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- at least **40% in the final examination** (i.

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- at least **50% as a combined total**
NoSQL test and final exam



Final Exam

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- It is 150 minutes (two and a half hours) long.

- It c

T

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- at least **40% in the final examination** (i.

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- at least **50% as a combined total**
NoSQL test and final exam

- The final marks will be moderated in the examiners's meeting and may be scaled as a result of this moderation.



Self Invigilation

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- T

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Self Invigilation

Assignment Project Exam Help

- T
- Y
- N

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Self Invigilation

Assignment Project Exam Help

- T
- Y
- N
- Y

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Self Invigilation

Assignment Project Exam Help

- T
- Y
- N
- Y

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- You should keep your recording safely for one mo

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Self Invigilation

Assignment Project Exam Help

- T
- Y
- N
- Y

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- You should keep your recording safely for one mo

- If the ANU should raise any concerns about the inte during the exam, you will have the option to submit y evidence to support your case.

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Self Invigilation

Assignment Project Exam Help

- T
- Y
- N
- Y

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- You should keep your recording safely for one mo
- If the ANU should raise any concerns about the inte during the exam, you will have the option to submit y evidence to support your case.
- If you should experience any unexpected issues on Wattle, you will have the option to submit your screen recording as evidence to support your case.

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What you need to know before the exam:

Assignment Project Exam Help

- The final exam will be held via this Wattle course site. You can only log in during your final exam period. Otherwise, your fin

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Assignment Project Exam Help

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- You only have one attempt for this final exam.

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- The final exam will be held via this Wattle course site. You can only log in during your final exam period. Otherwise, your fin

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- You only have one attempt for this final exam.

- This is an open book exam. However, you must co independently and with academic integrity.

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What you need to know before the exam:

Assignment Project Exam Help

- The final exam will be held via this Wattle course site. You can only log in Wattle from during your final exam period. Otherwise, your fin

- <https://eduassistpro.github.io> one for th

- You only have one attempt for this final exam.

- This is an open book exam. However, you must co independently and with academic integrity

- (Optional) Find screen recording software that y computer (refer to Wattle). Test it, and make sure you can successfully record the whole of your screen for self invigilation.



What you need to do during the exam:

- Make yourself comfortable and power down all communication channels except the exam zoom session.

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What you need to do during the exam:

- Make yourself comfortable and power down all communication channels except the exam zoom session.
- (Optional) Start your full screen recording.

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What you need to do during the exam:

- Make yourself comfortable and power down all communication channels except the exam zoom session.

- (Optional) Start your full screen recording.

- C

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su

time, the final exam session on Wattle will be automatically closed and your answers may not be saved and submitted.

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What you need to do during the exam:

- Make yourself comfortable and power down all communication channels except the exam zoom session.

- (Optional) Start your full screen recording.

- C

a

a

su

time, the final exam session on Wattle will be automatically closed and your answers may not be saved and submitted.

- COMP6240 students must enter their answers by 7:55 pm (150 mins) and submit their answers by 8:00 pm (150 mins) and submit their answers by 8:05 pm (155 mins) additional 5-minute window (8:00 pm - 8:05 pm) m submission. Note that, if you don't submit your answers within the given time, the final exam session on Wattle will be automatically closed and your answers may not be saved and submitted.



What you need to do during the exam:

- Make yourself comfortable and power down all communication channels except the exam zoom session.

- (Optional) Start your full screen recording.

- C

a

a

su

time, the final exam session on Wattle will be automatically closed and your answers may not be saved and submitted.

- COMP6240 students must enter their answers by 7:00 pm (150 mins) and submit their answers by 8:00 pm (150 mins) and submit their answers by 8:05 pm (155 mins) additional 5-minute window (8:00 pm - 8:05 pm) m submission. Note that, if you don't submit your answers within the given time, the final exam session on Wattle will be automatically closed and your answers may not be saved and submitted.

- (Optional) At the end of the exam, stop your screen recording, save it, check it, and keep it in a safe place for one month. Do not send it to ANU.



Pre-Final Exam Support

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- Make effective use of the Wattle discussion forum!

- D

● <https://eduassistpro.github.io>

● 3 4-5 pm, Thursday, Nov 4

● 4 4-5 pm, Friday, Nov 5

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- Emails

Yu Lin: yu.lin@anu.edu.au or Qing Wang: qing.wang@anu.edu.au



Final Exam

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• How to prepare for the final exam for CSMP2400/6240?

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Final Exam

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- Be clear with what are included & what are not included

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Final Exam

Assignment Project Exam Help

- Be clear with what are included & what are not included
- What are important information sources for the final exam?

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Final Exam

Assignment Project Exam Help

- Be clear with what are included & what are not included
- What are important information sources for the final exam?

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Final Exam

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Final Exam

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- Be clear with what are included & what are not included
- What are important information sources for the final exam?

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- Lab notes (more exercises)

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Final Exam

Assignment Project Exam Help

- Be clear with what are included & what are not included
- What are important information sources for the final exam?

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- Lab notes (more exercises)
- Assignments (sample questions and solutions)

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Final Exam

Assignment Project Exam Help

- Be clear with what are included & what are not included
- What are important information sources for the final exam?

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- Lab notes (more exercises)
- Assignments (sample questions and solutions)
- Sample exam paper (sample questions and solutions)

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Final Exam

Assignment Project Exam Help

- Be clear with what are included & what are not included
- What are important information sources for the final exam?

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- Lab notes (more exercises)
- Assignments (sample questions and solutions)
- Sample exam paper (sample questions and solutions)
- DatabaseBench: <https://cs.anu.edu.au/dab/bench/db-exercises/>

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Final Exam

Assignment Project Exam Help

- Be clear with what are included & what are not included
- What are important information sources for the final exam?

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- Lab notes (more exercises)
- Assignments (sample questions and solutions)
- Sample exam paper (sample questions and solutions)
- DatabaseBench: <https://cs.anu.edu.au/dab/bench/db-exercises/>

- You may also use the textbook as a reference, or search on Google ...



What have you learned?

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Weeks	Lectures/Workshops
1	Introduction to database systems
2	Relational data model
7	Relational al
8	Query proce
9	Database se
10	Database transactions
11	NoSQL Databases

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What will be covered in the final exam?

Weeks	Lectures/Workshops
1	Introduction to database systems
2	Relational data model
	—
7	Relational algebra
8	Query processing and optimisation
9	Database security
10	Database transactions
11	NoSQL Databases

Armstrongs Inference Rules in Week 5 workshop slides (slides 16-25) will not be covered.

Execution plan in Week 8 workshop slides (slides 8-27) will not be covered.



What will be covered in the final exam?

Assignment Project Exam Help

3	Advanced SQL
4	Entity-Relationship Model
5	Functional Dependencies
6	Normalisation
7	Relational Algebra, and Query Processing and Optimisation
8	Database Programming



Final Exam - Assignments and Past Exam Papers

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Final Exam - Assignments and Past Exam Papers

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Final Exam - Assignments and Past Exam Papers

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- T

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- The NoSQL test will not be covered.

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Final Exam - Assignments and Past Exam Papers

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- T

- T

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- The NoSQL test will not be covered.

- The final exam paper in 2012 (the specification and Wattle). Note the difference.

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Final Exam Questions

Question type:

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(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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The full mark for each question (of five choices) is 2



Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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The full mark for each question (of five choices) is 2

+0.4 for each correct one and -0.4 for each incorrect



Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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The full mark for each question (of five choices) is 2
+0.4 for each correct one and -0.4 for each incorrect
Assume the correct answer is (A)(C)



Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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The full mark for each question (of five choices) is 2
+0.4 for each correct one and -0.4 for each incorrect

Assume the correct answer is (A)(C)

- (A)(C) will receive 2 (out of 2) marks.



Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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The full mark for each question (p five choices) is 2
+0.4 for each correct one and -0.4 for each incorrect

Assume the correct answer is (A)(C)

- (A)(C) will receive 2 (out of 2) marks.
- (A) and (A)(C)(D)



Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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The full mark for each question (p five choices) is 2
+0.4 for each correct one and -0.4 for each incorrect

Assume the correct answer is (A)(C)

- (A)(C) will receive 2 (out of 2) marks.
- (A) and (A)(C)(D) will receive 1.2 (out of 2) marks.



Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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The full mark for each question (of five choices) is 2
+0.4 for each correct one and -0.4 for each incorrect

Assume the correct answer is (A)(C)

- (A)(C) will receive 2 (out of 2) marks.
- (A) and (A)(C)(D) will receive 1.2 (out of 2) marks.
- (A)(B) and (A)(C)(D)(E)



Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

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- (A)(C) will receive 2 (out of 2) marks.
- (A) and (A)(C)(D) will receive 1.2 (out of 2) marks.
- (A)(B) and (A)(C)(D)(E) will receive 0.4 (out of 2) marks.



Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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+0.4 for each correct one and -0.4 for each incorrect

Assume the correct answer is (A)(C)

- (A)(C) will receive 2 (out of 2) marks.
- (A) and (A)(C)(D) will receive 1.2 (out of 2) marks.
- (A)(B) and (A)(C)(D)(E) will receive 0.4 (out of 2) marks.
- (A)(B)(D) and (D)



Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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The full mark for each question (of five choices) is 2
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- (A)(C) will receive 2 (out of 2) marks.
- (A) and (A)(C)(D) will receive 1.2 (out of 2) marks.
- (A)(B) and (A)(C)(D)(E) will receive 0.4 (out of 2) marks.
- (A)(B)(D) and (D) will receive 0 (out of 2) marks.



Final Exam Questions

Question type:

Assignment Project Exam Help

(1) Multiple Choice Questions (first 10 questions)

- Select **one or more choices** as desired.



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The full mark for each question (of five choices) is 2
+0.4 for each correct one and -0.4 for each incorrect

Assume the correct answer is (A)(C)

- (A)(C) will receive 2 (out of 2) marks.
- (A) and (A)(C)(D) will receive 1.2 (out of 2) marks.
- (A)(B) and (A)(C)(D)(E) will receive 0.4 (out of 2) marks.
- (A)(B)(D) and (D) will receive 0 (out of 2) marks.



Final Exam Questions

Question type:

Assignment Project Exam Help

(2) Problem-Solving Questions (remaining 9 questions)

- Include necessary justifications if instructed.



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Final Exam Questions

Question type:

Assignment Project Exam Help

(2) Problem-Solving Questions (remaining 9 questions)

- Include necessary justifications if instructed.



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Final Exam Questions

Question type:

Assignment Project Exam Help
(2) Problem-Solving Questions (remaining 9 questions)

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Final Exam on Wattle

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Final Exam on Wattle

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- T sit <https://eduassistpro.github.io>
- Y at the bottom of the course Wattle site.
 - COMP2400 Final Exam (Mock Test)
 - COMP6240 Final Exam (Mock Test)
- In the final exam you must choose either COMP24 depending on your enrollment information.

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Assignment 2 – Q1

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The requirements that cannot be captured in an EER-diagram.

- The work type of administrators can be either remote, onsite or hybrid.
- Once a ride is completed, the customers credit card will be automatically charged by ACTScooter.



Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

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Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether $\Sigma \models AB \rightarrow CD$

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Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether $\Sigma \models AB \rightarrow CD$

- Check whether the closure of AB under

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Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether $\Sigma \models AB \rightarrow CD$

- Check whether the closure of AB under
- How to compute the closure of AB under

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Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether $\Sigma \models AB \rightarrow CD$

- Check whether the closure of AB under
- How to compute the closure of AB under
- $(AB)^+ = (ABC)^+$ (using $AB \rightarrow C$) = $ABCDE$ (using $C \rightarrow DE$)



Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether $\Sigma \models AB \rightarrow CD$

- Check whether the closure of AB under Σ contains CD
- How to compute the closure of AB under Σ
- $(AB)^+ = (ABC)^+$ (using $AB \rightarrow C$) = $ABCDE$ (using $C \rightarrow DE$)
- The closure of AB under Σ contains CDE and thus $\Sigma \models AB \rightarrow CDE$.

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Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether ADE is a candidate key (mini

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Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether ADE is a candidate key (mini

- Check whether ADE is a superkey

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Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether ADE is a candidate key (mini

- Check whether ADE is a **superkey** (The c

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Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether ADE is a candidate key (mini

- Check whether ADE is a **superkey** (The c
- Check whether ADE is a **minimal** superk

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Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether ADE is a candidate key (mini

- Check whether ADE is a **superkey** (The c
- Check whether ADE is a **minimal** superk
superkey)



Assignment 2 – Q2

Assignment Project Exam Help

Consider the relation schema $R = \{A, B, C, D, E\}$ and the following set Σ of FDs:

- A
- B
- C
- $DE \rightarrow B$

How to check whether ADE is a candidate key (mini

- Check whether ADE is a **superkey** (The c
- Check whether ADE is a **minimal** superk
superkey)
- ADE is a minimal super key and thus a candidate key.



Assignment 2 – Q2

Assignment Project Exam Help

Minimal Cover Main steps.

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Assignment 2 – Q2

Assignment Project Exam Help

Minimal Cover Main steps.

- Step (1) Start from AB C, BC A, C DE, DE B

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Assignment 2 – Q2

Assignment Project Exam Help

Minimal Cover Main steps.

- Step (1) Start from AB C, BC A, C DE, DE B
- St

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Assignment 2 – Q2

Assignment Project Exam Help

Minimal Cover Main steps.

- Step (1) Start from AB C, BC A, C DE, DE B
- St
th

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Assignment 2 – Q2

Assignment Project Exam Help

Minimal Cover Main steps.

- Step (1) Start from $AB \quad C, BC \quad A, C \quad DE, DE \quad B$
- St
th
- St
left hand side of any FD

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Assignment 2 – Q2

Assignment Project Exam Help

Minimal Cover Main steps.

- Step (1) Start from $AB \quad C, BC \quad A, C \quad DE, DE \quad B$

- St
th

- St

left hand side of any FD

$BC \rightarrow A$ can be reduced to $C \rightarrow A$ because

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Assignment 2 – Q2

Assignment Project Exam Help

Minimal Cover Main steps.

- Step (1) Start from $AB \quad C, BC \quad A, C \quad DE, DE \quad B$

- St
th

- St

left hand side of any FD

$BC \rightarrow A$ can be reduced to $C \rightarrow A$ because

Why $AB \rightarrow C$ cannot be replaced by $B \rightarrow C$

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Assignment 2 – Q2

Assignment Project Exam Help

Minimal Cover Main steps.

- Step (1) Start from $AB \quad C, BC \quad A, C \quad DE, DE \quad B$

- St
th

- St

left hand side of any FD

$BC \rightarrow A$ can be reduced to $C \rightarrow A$ because

Why $AB \rightarrow C$ cannot be replaced by $B \rightarrow C$

(Refer to Slides 31-32 in Week 5 workshop)



Assignment 2 – Q2

Assignment Project Exam Help

Minimal Cover Main steps.

- Step (1) Start from $AB \rightarrow C, BC \rightarrow A, C \rightarrow DE, DE \rightarrow B$

- Step (2) St

- Step (3)

left hand side of any FD

$BC \rightarrow A$ can be reduced to $C \rightarrow A$ because

Why $AB \rightarrow C$ cannot be replaced by $B \rightarrow C$

(Refer to Slides 31-32 in Week 5 workshop)

- Step (4) Check if there are any redundant FDs (all good).

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Assignment 2 – Q2

Assignment Project Exam Help

Minimal Cover Main steps.

- Step (1) Start from $AB \rightarrow C, BC \rightarrow A, C \rightarrow DE, DE \rightarrow B$

- Step (2)

- Step (3)

left hand side of any FD

$BC \rightarrow A$ can be reduced to $C \rightarrow A$ because

Why $AB \rightarrow C$ cannot be replaced by $B \rightarrow C$

(Refer to Slides 31-32 in Week 5 workshop)

- Step (4) Check if there are any redundant FDs (all good).

The Minimal cover is $\{AB \rightarrow C, C \rightarrow A, C \rightarrow D, C \rightarrow E, DE \rightarrow B\}$



Assignment 2 – Q3

Consider the relation schema $\text{APPOINTMENT} = \{P, G, D, T, G, R\}$
and $\Sigma = \{F(D) \rightarrow T, P \rightarrow G, G \rightarrow C, C(D \vee R) \rightarrow P, R(D) \rightarrow C\}$.

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Assignment 2 – Q3

Consider the relation schema $\text{APPOINTMENT} = \{P, G, D, T, G, R\}$
and $\Sigma = \{F(D) \rightarrow T, P \rightarrow G, G \rightarrow C, C(D \vee R) \rightarrow P, P(D) \rightarrow C \vee R\}$.

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Note that $G \rightarrow C$ is lost because it cannot be recovered (inferred) by the surviving FDs in R_A and R_B .



Assignment 2 – Q4

Assignment Project Exam Help

STUDENT={SID, Name, Degree, College, Address, Phone} with the primary key {SID},

C {CourseNo,
S

T <https://eduassistpro.github.io>
C

[CourseNo,Semester] \subseteq COURSE[CourseNo,Semester] and
[TID] \subseteq STUDENT[SID],

ENROLL={SID, CourseNo, Semester, Unit, Sta
{SID, CourseNo, Semester} and the foreign

[CourseNo,Semester] \subseteq COURSE[CourseNo,Semester] and
[SID] \subseteq STUDENT[SID].

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Assignment 2 – Q4

Assignment Project Exam Help

STUDENT = {SID, Name, Degree, College, Address, Phone} with the primary key {SID},

C {CourseNo,
S

T <https://eduassistpro.github.io>
C

[CourseNo, Semester] \subseteq COURSE[CourseNo, Semester] and
[TID] \subseteq STUDENT[SID],

ENROLL = {SID, CourseNo, Semester, Unit, Sta
{SID, CourseNo, Semester} and the foreign

[CourseNo, Semester] \subseteq COURSE[CourseNo, Semester] and
[SID] \subseteq STUDENT[SID].

Pay attention to keywords like **never**, **only**, **always**, **exactly**, etc. which often indicate to use the set difference in the corresponding RA queries.



Questions or Feedback?

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experience in this course. Your anonymo

us in planning future offerings of this course

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We value your feedback!