

REQUIREMENTS		Type of Test	Pass or Fail	Contributor
<b>Functional</b>				N=Nishant, A=Andrei, S=Skyler, M=Matthew
1.1	System will allow for relational algebra statements to be entered.	UI Testing Integration Testing	Pass Pass	N,N
1.2	System will show visualizations of the resulting entered statement prior to submission.	UI Testing Integration Testing	Pass Pass	N, N
1.3	System will automatically mark the relational algebra questions once submitted.	Unit Testing	Pass	A
1.4	System will allow for DDL/SQL code to be entered. System will show resulting tables of queries prior to submission.	UI Testing Integration Testing	Pass Pass	N, N
1.5	System will automatically mark the DDL/SQL questions once submitted.	Unit Testing	Pass	N, N
1.6	Student will be able to see the correct answer if the professor has allowed for the correct answer to be displayed after the question is submitted.	Unit Testing Integration Testing UI Testing	Pass Pass Pass	A, M, N
1.7	Professor will be able to set whether the correct answer will be displayed after the question is submitted.	Not testable	Not testable	
1.8	Professor will be able to see the correct answer.	Not testable	Not testable	
<b>Non-Functional</b>				
2.1	The system will support all COSC 304 users simultaneously – about 200 students.	Performance Testing	Fail	
2.2	The system will ensure data integrity and preservation so that no data is lost upon submission.	Performance Testing	Fail	
2.3	The system will display entered queries within 3 seconds at scale and under optimal conditions.	Performance Testing	Fail	
2.4	The system will return automarked submissions within 5 seconds at scale and under optimal conditions.	Performance Testing	Fail	
2.5	The user interface will match existing software used for COSC 304.	UI Testing	Pass	A, M
<b>Technical Requirements</b>				
3.1	Rebuild RelaX editor and calculator into PrairieLearn	UI Testing Integration Testing	Pass Pass	N, N
3.2	Frontend: JavaScript, HTML, CSS	UI Testing	Pass	N
3.3	Backend: Python, Node.JS	Unit Testing	Pass	N,A,S
3.4	Write JavaScript code that takes in SQL/DDI statements and displays appropriate table results	Integration Testing	Pass	N
3.5	Write Python code that automatically marks submitted data and returns the students grade	Unit Testing	Pass	A, N