Security and Data Integrity Analysis Grading Rubric

CSSE 333—Intro. to Database Systems

Criteria (weight)	5 Exemplary	3 Satisfactory	1 Needs Improvement	Score (Weighted)
Organization (x1)	Document uses headings and topic sentences. It is easy for the reader follow the discussion and to find any specific topic.	Document uses some headings and topic sentences. It is fairly easy for the reader follow the discussion and to find most specific topics.	Document uses no headings or topic sentences. It is hard for the reader follow the discussion or find specific topics.	
Clarity and Conciseness (x2)	Writing is clear and unambiguous. It is not unnecessarily wordy.	Writing is mostly clear and unambiguous. Occasional instances of unclear or awkward writing.	Writing is unclear, ambiguous or excessively wordy as to detract from the points being made.	
Spelling, Grammar, Punctuation (x1)	Document is free of errors in spelling, grammar and punctuation.	Document has a small number of errors in spelling, grammar, or punctuation.	Document has many errors in spelling, grammar, and punctuation.	
Professionalism (x2)	Document presents a professional tone. It could be shared with a "real-world" customer without changes.	Document largely presents a professional tone. It could be shared with a "real-world" customer with minor revisions.	Document is unprofessional. The majority of the prose would have to be rewritten before sharing the document with a "real-world" customer.	
Privacy Analysis (x4)	Document identifies all data that might be considered personal. Examples are used to motivate why this data might be considered so. For each sort of personal data, document clearly describes which users should be able to access that data and why.	Document identifies most data that might be considered personal. Examples are used to motivate why some of this data might be considered so. For most sorts of personal data, document clearly describes which users should be able to access that data and why.	Document does not identify data that might be considered personal. Document does not include examples regarding personal data. Document does not describe which users should be able to access data or why.	

Criteria (weight)	5 Exemplary	3 Satisfactory	1 Needs Improvement	Score (Weighted)
Security Analysis (x4)	Document discusses at least three ways in which the security of the system might be breached, focusing on security vulnerabilities that are within the project team's control. Document discusses implications for each sort of security breach on: data integrity, privacy, and each stakeholder.	Document discusses two ways in which the security of the system might be breached, focusing on security vulnerabilities that are within the project team's control. Document discusses implications for each sort of security breach on: data integrity, privacy, and most stakeholders.	Document does not discuss ways in which the security of the system may be breached, or only discusses vulnerabilities that are outside the project team's control. Document does not discuss the implications of security breaches on data integrity, privacy, or stakeholders.	
Entity Integrity Analysis (x2)	Document describes the entity integrity constraints for all tables, including all primary keys and any restrictions on values in columns (e.g., 9 digit social security numbers).	Document describes the entity integrity constraints for most tables, including their primary keys.	Document does not discuss entity integrity constraints or primary keys for tables.	
Referential Integrity Analysis (x2)	Document describes the referential integrity constraints for all tables, including all foreign key constraints, the policies for handling violations (i.e., reject, cascade, or update), and reason for each policy decision.	Document describes the referential integrity constraints for most tables, including their foreign key constraints and the policies for handling violations (i.e., reject, cascade, or update).	Document does not discuss referential integrity constraints for tables.	
Business Rule Integrity Analysis (x2)	Document describes all business rule constraints between tables (e.g., inventory must be adjusted when products are sold to customers). If no such constraints are needed, document briefly describes why not. Document describes how any business rule constraints will be enforced (e.g., triggers, stored procedures, or via the interface code).	Document describes some business rule constraints between tables (e.g., inventory must be adjusted when products are sold to customers). If no such constraints are needed, document briefly describes why not.	Document does not discuss business rule constraints between tables.	