Data integrity implications

**The following are the project’s deliverables:**Access SQL Server to complete Assignment#2. Use db: Student and add the following ***suffix*** **ProfG\_FP** to**all objects** created under your schema (e.g S125). cityechdb1.database.windows.net.

1. ~~Write a 2 – 3 pages proposal of the business problem that needs to be solved.~~
2. ~~This proposal should include a description of the organization/department~~
3. ~~Name your product~~
4. ~~Explain its audience~~
5. ~~Explain your product’s contribution to the improvement of business~~
6. ~~Draw the Physical Entity-Relationship Diagram (ERD) that represents your database model. (Normalized to 3NF). There must be a minimum of 10 tables in this database model.~~
7. ~~Create, populate, and secure the entities (30 rows each via stored procedure).~~
8. ~~Describe fifteen scripts/reports, how the newly implemented system would require for answering 15 typical questions. Be very descriptive.~~
9. ~~Data security: (at least three fields) client's sensitive data/information such as email/phone number/ credit cards etc. are expected to be secure and masked when on display.~~
10. Identify and describe the business rules/processes that will be automated by the database application.
11. ~~Business indicates that the system becomes very slow when some canned reports are running. There are numerous ways to resolve this issue, identify one and implement it.~~
12. Data retention policy: data is kept indefinitely. There are numerous ways to resolve this issue, find one and implement it.
13. ~~Generate at least three (3) payloads as Json output for downstream consumption. (hint: use requirement #4).~~
14. ~~Write and test four (4) user-defined functions. Functions must be used in either the stored procedures or the views.~~
15. Write and test seven (7) stored procedures to implement the business rules.
    * At least three (3) of the store procedures must have error handling in its processing.
    * At least two (2) of the store procedures must have transaction management in its processing.
    * At least one (1) of the store procedures must be nested – called by another store procedure and return a status to its caller. The caller must evaluate the return status.
    * All seven (7) store procedures must have adequate and appropriate comments.
16. Write and test seven (7) triggers for seven (7) separate tables to implement the business rules.
    * At least two (2) of the triggers must be for delete.
    * At least one (1) of the triggers must be for insert.
    * At least two (2) of the triggers must be for update.
    * At least one (1) of the triggers must be for insert/delete/update.
17. Presentations 12/5 & 12/10 (audience consists of 75% business).