
SRS-DOCUMENT

**Educational institute database
with
MS SQL Server**

Implementation team

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Database content :

- ❖ System ERD

- ❖ Mapping

- ❖ Tables

- ❖ Rows with data

- ❖ Views

- ❖ Procedures

- ❖ Scalar function

- ❖ Triggers

- ❖ Index

- ❖ Scheduled backup

- We had created a database for an educational institute which contain each entity of that organization and any information about it .
- Each relation between each entity had been considered in the ERD-diagram.
- Each possible scenario had been built and logically considered.
- Each constraint had been added according to that logic like primary keys, foreign keys, not null and so on.
- We have “instead” trigger that prevent from deleting any course from the system and instead of deleting it prints 'You cannot delete from this table'
- Also have another “instead” trigger do the same while trying to delete an intake from the system.

- We have “After” trigger that after the instructor insert anything to the course table it select inserted and deleted data from the system and reveal it .
- We have “After” trigger that after inserting any data in the “instructor_class” table it automatically insert the id of the instructor who would teach and the id of the course which being teach by him.
- Also we created a stored procedure that calculate the minimum and maximum degree the student would have in the exam, and minimum degree means that min degree can passed him .
- That stored procedure was about the exam passing degree so we created a function that check if the student had succeed or not .
- Finally all index we have are to retrieve data heavily from tables .
- Columns are used in searching conditions .