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## INSTRUCTIONS

- a. Write the SQL queries and for all questions below.
- b. Submit the resulting SQL queries in a .docx file via moodle.
- c. Use Exercise handout provided in class and the slides on Lab 4.
- d. NOTE: DO NOT access internet and NO peer guidance.

Answer all queries below:

1. Create a **view** that returns all rows from the **STUDETNS** table and only two columns, the **name** as "sname" and **address** as "saddress" **(1 point)**
2. Write a **trigger** that checks for age of a professor before inserting it in the PROFESSORS table and returns an error if the age is below 18yrs. To get age from Dateofbirth use `DateDiff(Now(),DateOfBirth)/365` **(2 points)**
3. Create a **view** that returns all rows and columns from join of **STUDENTS**, **COURSES** and **TAKE** tables **(1 point)**
4. Write a trigger that makes a backup copy of a record in the TAKE table and saves it in **TAKE\_BACKUP** whenever that record is deleted from the TAKE table. **(2 points)**  
Note: Use SQL below to create TAKE\_BACKUP table.  

```
CREATE TABLE TAKE_BACKUP (SELECT * FROM TAKE WHERE 1 = 2);
```
5. Write a trigger to keep track of changes made on the GRADE in the TAKE table and saves them in a **GRADE\_CHANGE** table. **(2 points)**  
Note: Use SQL below to create GRADE\_CHANGE table.  

```
CREATE TABLE GRADE_CHANGED (  
    SID VARCHAR(45) NOT NULL ,  
    OLDGrade VARCHAR(45) NULL ,  
    NEWGrade VARCHAR(45) NULL );
```