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| 13. SQL ASSIGNMENTS-TRIGGERS |
| This assignment is related to TRIGGERS in SQL SERVER |

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**Assignment1 - BankAccounts Assignment**

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| 1. **Create a Table BankAccounts in SQL SERVER.**   **CREATE A TABLE FOR BANKACCOUNT**   |  |  |  | | --- | --- | --- | | COLUMN\_NAME | DATATYPE | CONSTRAINT | | ACCOUNTNO | INT | PRIMARY KEY, IDENTITY(1,1) | | ACCOUNTNAME | VARCHAR(100) |  | | BALANCE | FLOAT |  | |  |  |  |  * Part A   WRITE A TRIGGER TO MAINTAIN THE ACCOUNT HISTORY IN ACCOUNT\_HISTORY TABLE  When there is any update into the Balance of the BankAccount table, it should be maintained in the history table like this  TABLENAME : ACCOUNTHISTORY   |  |  |  |  |  | | --- | --- | --- | --- | --- | | ACCOUNTNO | TRANSACTIONTYPE | AMT | LASTBALANCE | TRANSACTIONDATE | | 101 | DEBT | 100 | 6000 | 08/05/2020 | | 101 | CREDIT | 500 | 6500 | 09/05/2020 |  * Part B   WHENEVER THERE IS AN UPDATE INTO THE BANKACCOUNT TABLE, IT SHOULD ALSO GENERATE ALSO GENERATE THE LAST 5 TRANSACTION DONE INTO THE ACCOUNT NO |

**Assignment2 - Employee Assignment**

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| 1. **Create a Table EMPLOYEE in SQL SERVER.**   **CREATE A TABLE FOR EMPLOYEE**   |  |  |  | | --- | --- | --- | | COLUMN\_NAME | DATATYPE | CONSTRAINT | | EMPNO | INT | PRIMARY KEY, IDENTITY(1,1) | | EMPNAME | VARCHAR(100) |  | | SALARY | FLOAT |  | | TAX | FLOAT |  | | Designation | VARCHAR(100) |  |  * Part A   WRITE A TRIGGER TO MAINTAIN THE updates IN EMPLOYEE TABLE  When there is any update in the **EMPLOYEE** table, it should be maintained in the history table like this  TABLENAME : **EMPLOYEE\_**HISTORY   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | EMPNO | EMPNAME | SALARY | TAX | DESIGNATION | UPDATED\_DATETIME | UPDATED\_BY | |  |  |  |  |  | Datetime at which the data have been updated | UserName who have updated the record |  * Part B   WRITE A TRIGGER TO MAINTAIN THE deleted IN EMPLOYEE TABLE  When there is any delete in the **EMPLOYEE** table, it should be maintained in the deleted table like this  TABLENAME : **EMPLOYEE\_**DELETE   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | EMPNO | EMPNAME | SALARY | TAX | DESIGNATION | DELETED\_DATETIME | DELETED\_BY | |  |  |  |  |  | Datetime at which the data have been deleted | UserName who have DELETED the record | |

**Assignment3 - StudentAssignment**

**CREATE A STUDENT TABLE SIMILAR TO THIS**

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| |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | **ROLLNO** | **NAME** | **ENGMARKS** | **SCNMARKS** | **MATHMARKS** | **TOTALMARKS** | **PERCENTAGE** | **GRADE** | | **IDENTITY(1,1)** |  |  |  |  |  |  |  |   **WRITE A TRIGGER TO CALCULATE THE VALUES OF TOTALMARKS, PERCENTAGE AND GRADE AND INSERT INTO THE STUDENT TABLE.**  **THE USER WILL INSERT NAME,ENGMARKS,SCNMARKS,MATHMARKS.**  **THE TOTALMARKS,PERCENTAGE AND GRADE SHOULD BE CALCULATED THROUGH TRIGGER AND INSERT INTO THE TABLE.** |