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| **TRIGGER** |
| **Aim:**   * To understand Trigger * Implement Trigger |
| **Prerequisite:** Oracle, SQL |
| **Outcome:** Students will be able to create trigger for a desired event. |
| **Theory:**  Stored Program which are automatically fired or executed when some event occur such as DML or DDL or DB operation.  **Syntax:**  Create or Replace Trigger trigger-namge  Before| After | Instead of Insert | update | Delete  Of colName  On tableName  Referencing old as O new as N  For each row  When (condition)  Declare  ------  Begin  ------  Exception  ------  End;  **Example:**  Create or Replace Trigger display\_salary\_change  Before Insert or update or Delete  On tableName  Referencing old as new as  For each row  When (new.id>0)  Declare  salary\_difference number;  Begin  salary\_difference:= :new.salary - :old.salary;  dbms\_output.put\_line(‘salary difference is: ‘ || salary\_difference)  End; |
| **Practice Exercise**   |  |  | | --- | --- | | 1 | Create following tables  student(id number,name varchar2(25),programme varchar2(25)) | | 2 | Insert following data in student table: | | 3 | Create a trigger which fires for every update done on programme attribute and print the old and new value of program. | |
| **Instructions:**   1. Write and execute the query in Oracle SQL server/ SQL\* Plus. 2. Paste the snapshot of the output in input & output section. |
| **Part B** |
| **Code and Output:**  **1.** |
| **2.** |
| **3.** |
| **Observation & Learning:**  From this experiment, we observed and learned how the triggers are implemented and works in the **ORACLE DATABASE** |
| **Conclusion:**  In this experiment, Triggers are created and implemented in the ORACLE DATABASE. |