**Database Programming – Phase 2 – Final Phase**

**RED TEAM**

* **Creation of Tables**
  + **ACCESSRULE**

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* + **MODEL**

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* + **Comparison**

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* + **DISCREPANCY**

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* **Population of Tables**
  + **ACCESS RULE**

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**Total rows:**

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* + **MODEL**

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**Total rows:**

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* + **Comparison (LEFT JOIN)**

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**Total rows:**

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* + **DISCREPANCY (LEFT JOIN)**

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**Total rows (Mismatched rows):**

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* **Approach 1 – LEFT JOIN**
  + **For each row from MODEL table having score TRUE, fetch each row from ACCESSRULE table and insert ar\_id, m\_id into Comparison table.**
    - Row Count: 38080

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* + - Created a stored procedure insertComparison() for the same to insert records into Comparison table from both MODEL and ACCESSRULE table.

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* + **Fetched all mismatched rows (evidences of discrepancy) from MODEL table after comparison of pertinent attributes from both MODEL table and ACCESSRULE table.**
    - Mismatched count (Evidence of Discrepancy): 9860

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* + - Created a stored procedure i.e. getEvidence() to get all evidence of discrepancies happened during comparison between MODEL and ACCESSRULE table.

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* + - While creating above stored procedure getEvidence(), we have called insertComparison() stored procedure inside of it because we don’t want to call two separate procedures manually.

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* **Approach 2 – Cursors**

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**NOTE: Unfortunately, by using cursors, we are unable to insert mismatched records after comparison into DISCREPANCY table.**

**However, usually cursor will take more network bandwidth which ultimately degrade the speed of the operations than JOIN approach, hence we are going to use JOIN approach over Cursor approach.**