

Testing and Troubleshooting in UNIX PkMS.

Testing in PkMS (UNIX) requires understanding of basics of following objects.

- RDBMS database fundamentals.
- SQL (Structured Query Language)
- Different processes in PkMS.
- Fundamental UNIX commands such as vi, more, cd, grep, find.

Basic Inquiries:

The basic inquiries in Unix PkMS can be done by actually reviewing data by using inquiry functions. This keeps the data in read-only version and prevents any change.

SQL (Structured Query Language) is useful when making mass updates or selecting a large number of records in PkMS. SQL has to be used very carefully as it can delete a number of records very quickly.

Project Testing Requirements.

Once a modification to existing code is done and modifications are migrated to test environment, each modification in functionality is tested in the Unit Test Environment. System Testing is carried out once the code is approved in the Unit Environment. Then it is System tested with all other functionalities in the particular functional area.

Creating and Maintaining Test Scripts in PkMS.

Test Scripts are very important in testing purposes. Creating of test scripts can be very time-consuming and involved process.

Four main steps involved in creation of test scripts are:

1. Identify all operational scenarios.

First step in the creation process is to identify all operational scenarios for functionality to be tested. These will include all 'normal' and 'abnormal' processes. It is important that tests are done for 'expected' results and also have 'what-ifs' for non-normal results.

2. Identify Test Conditions.

Test conditions are defined based upon the type of scenario being tested.

3. Identify data required for testing each test condition.

Based on the Test condition, identify the data element required. In case in RF Receiving it would be cases in status 10 and 50.

4. Determine the expected results for each test condition.

Once tests are conducted, check if the determined results match up with what the functionality describes.