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3. Test Approach

3.1 Testing Techniques and Types

3.1.1 Data and Database Integrity Testing
The databases and the database processes are tested as an independent subsystem. This testing tests the subsystem without the target of user's test function on the interface to the data.
Since ODS associates many database transactions, it's vital to make sure that the database remains in a consistent state irrespective of the test behavior. Following test procedures suggest the database testing for the system ODS.

Technique Objective:	Exercise database access methods (data methods, methods, query packages) and processes independent of the User Interface so that it's possible to observe and log incorrect functioning, target behavior or data corruption.
Technique:	Execute each database access method and process, sending each with valid and invalid data or requests for data. Inspect the database to ensure the data has been populated as intended and all database events have occurred properly, or verify the returned data to ensure that the correct data was retrieved for the correct reason.
Details:	Unit testing In this approach, for each data access method, several test methods are created. These test parameters that should be passed to the function being tested to ensure. Using assertions, it is tested whether data access functions generate the expected outcome. The function is tested for: <ul style="list-style-type: none">Valid inputs.Invalid inputs.Errors and exceptions. Since the unit testing is fully automated, it's possible to have a series of test cases automatically.
Required Tools:	<ul style="list-style-type: none">Test Script Administration Tool (JUNIT framework)JUNIT is integrated with NETBEANS IDE. The results of sequential tests are shown in the output window.MYSQLHEBERNAUTE framework
Success Criteria:	The technique supports the testing of all key database access methods and processes. If all test methods return "Passed" then it can be concluded that the data access methods are functioning properly.
Special Considerations:	<ul style="list-style-type: none">Testing requires a DBMS development environment or SQL drivers to enter or modify data directly in the database.Small or minimally used databases (limited number of records) are used to increase the reliability of any non-repeatable events.Each data access method should be tested for all possibilities, i.e. valid input, invalid input, exception conditions.

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