

Sample of common Operations error repository (based on Oracle and Investment Banking related) and steps to be taken to solve them are described below:

1. ORA-00001: Unique Constraint Violated

Description: Attempt to insert a duplicate value into a column that is constrained to hold unique values.

Solution:

Ensure the value being inserted is unique.

Check existing data for duplicates.

Use sequences or GUIDs to generate unique values.

2. ORA-00018: Maximum Number of Sessions Exceeded

Description: The number of sessions exceeded the maximum allowed.

Solution:

Increase the maximum number of sessions.

Terminate inactive sessions.

Optimize session usage.

3. ORA-00020: Maximum Number of Processes Exceeded

Description: The number of processes exceeded the maximum allowed.

Solution:

Increase the maximum number of processes.

Terminate inactive processes.

Optimize process usage.

4. ORA-00028: Your Session Has Been Killed

Description: The current session has been terminated.

Solution:

Reconnect to the database.

Identify why the session was killed and address the issue.

5. ORA-00054: Resource Busy and Acquire with NOWAIT Specified

Description: A resource is busy and the NOWAIT option was specified.

Solution:

Retry the operation after some time.

Avoid using the NOWAIT option if possible.

6. ORA-00060: Deadlock Detected While Waiting for Resource

Description: A deadlock condition was detected.

Solution:

Review and optimize the transaction logic to avoid deadlocks.

Ensure proper locking order.

7. ORA-00076: Dump Name Not Found

Description: The specified dump name does not exist.

Solution:

Verify the dump name.

Ensure the dump file exists and is accessible.

8. ORA-00079: Variable Size Exceeds Maximum Size

Description: The size of a variable exceeds the maximum allowed size.

Solution:

Reduce the size of the variable.

Use appropriate data types.

9. ORA-00100: No Data Found

Description: A SELECT INTO statement did not return any rows.

Solution:

Ensure the query is correct and should return data.

Use exception handling to manage cases where no data is found.

10. ORA-00904: Invalid Identifier

Description: An invalid column name or identifier is used in a SQL statement.

Solution:

Verify column names and identifiers are spelled correctly.

Ensure the column exists in the relevant table.

11. ORA-00907: Missing Right Parenthesis

Description: A closing parenthesis is missing in the SQL statement.

Solution:

Ensure all opening parentheses have corresponding closing parentheses.

Check the SQL syntax.

12. ORA-00911: Invalid Character

Description: An invalid character was found in the SQL statement.

Solution:

Remove or replace the invalid character.

Verify the SQL syntax.

13. ORA-00932: Inconsistent Datatypes

Description: Datatypes are not consistent in the SQL statement.

Solution:

Ensure datatypes are compatible.

Use appropriate type conversion functions.

14. ORA-00942: Table or View Does Not Exist

Description: Referenced table or view does not exist in the database.

Solution:

Verify the table or view name is correct.

Ensure the table or view has been created and is accessible.

15. ORA-01002: Fetch Out of Sequence

Description: A fetch operation was attempted out of sequence.

Solution:

Ensure the cursor is opened and fetched in the correct order.

Check the cursor logic.

16. ORA-01007: Variable Not in Select List

Description: A variable in the INTO clause is not in the SELECT list.

Solution:

Ensure all variables in the INTO clause are present in the SELECT list.

Verify the SELECT statement.

17. ORA-01017: Invalid Username/Password; Logon Denied

Description: Incorrect username or password was provided.

Solution:

Verify the username and password.

Ensure the account is not locked.

18. ORA-01031: Insufficient Privileges

Description: The user does not have the necessary privileges to execute a statement.

Solution:

Grant the required privileges to the user.

Check the user's role and permissions.

19. ORA-01033: ORACLE Initialization or Shutdown in Progress

Description: The database is being initialized or shut down.

Solution:

Wait for the initialization or shutdown to complete.

Check the database status.

20. ORA-01034: ORACLE Not Available

Description: The ORACLE database is not available.

Solution:

Ensure the database is up and running.

Check the database connection parameters.

21. Error Code: IB-001 Invalid Trade Date

Description: Invalid Trade Date

Solution:

Verify the trade date format (YYYY-MM-DD) and ensure it falls within the acceptable range. Correct the date and reprocess the transaction.

22. Error Code: IB-002 Missing Counterparty Information

Description: Missing Counterparty Information

Solution:

Ensure all mandatory fields for the counterparty, such as name, ID, and contact details, are filled in. Update the information and retry the operation.

23. Error Code: IB-003 Duplicate Trade Entry

Description: Duplicate Trade Entry

Solution:

Check the trade ID to ensure it is unique. If a duplicate is detected, remove or correct the duplicate entry before proceeding.

24. Error Code: IB-004 Insufficient Funds

Description: Insufficient Funds

Solution:

Verify the account balance and ensure sufficient funds are available. If not, arrange for additional funds or adjust the transaction amount.

25. Error Code: IB-005 Invalid Currency Code

Description: Invalid Currency Code

Solution:

Check the currency code against the ISO 4217 standard. Correct any invalid codes and reprocess the transaction.

26. Error Code: IB-006 Unauthorized User

Description: Unauthorized User

Solution:

Ensure the user has the necessary permissions to perform the operation. Update user roles and permissions if needed.

27. Error Code: IB-007 Settlement Date Mismatch

Description: Settlement Date Mismatch

Solution:

Verify the settlement date and ensure it aligns with the agreed terms. Correct any discrepancies and reprocess the transaction.

28. Error Code: IB-008 Invalid Instrument Code

Description: Invalid Instrument Code

Solution:

Check the instrument code against the approved list of financial instruments. Correct any invalid codes and retry the operation.

29. Error Code: IB-009 Market Closed

Description: Market Closed

Solution:

Confirm the market hours and ensure the operation is being performed during active market hours. Reschedule the transaction if necessary.

30. Error Code: IB-011 Invalid Account Number

Description: Invalid Account Number

Solution:

Verify the account number format and ensure it is correct. Correct any errors and reprocess the transaction.

31. Error Code: IB-012 Trade Limit Exceeded

Description: Trade Limit Exceeded

Solution:

Check the trade limits for the account and ensure the transaction does not exceed these limits. Adjust the trade amount if necessary.

32. Error Code: IB-013 Missing Trade Confirmation

Description: Missing Trade Confirmation

Solution:

Ensure that trade confirmation has been received and recorded. Obtain and upload the confirmation document if missing.

33. Error Code: IB-016 Counterparty Credit Limit Breach

Description: Counterparty Credit Limit Breach

Solution:

Verify the counterparty's credit limit and ensure the transaction does not breach this limit. Adjust the transaction amount if necessary.

34. Error Code: IB-017 Missing Trade Documentation

Description: Missing Trade Documentation

Solution:

Ensure that all required trade documentation is complete and uploaded. Obtain and upload any missing documents.

35. Error Code: IB-021 Invalid Trade Type

Description: Invalid Trade Type

Solution:

Verify the trade type against the approved list. Correct any invalid trade types and reprocess the transaction.

36. Error Code: IB-022 Missing Settlement Date

Description: Missing Settlement Date

Solution:

Ensure the settlement date is provided. Update the transaction with the correct date and retry.

37. Error Code: IB-023 Invalid Trade Amount

Description: Invalid Trade Amount

Solution:

Verify the trade amount for accuracy. Correct any discrepancies and reprocess the transaction.

38. Error Code: IB-024 Counterparty Not Found

Description: Counterparty Not Found

Solution:

Verify the counterparty details and ensure they are correctly entered. Update the information and retry the operation.

39. Error Code: IB-025 Invalid Transaction ID

Description: Invalid Transaction ID

Solution:

Ensure the transaction ID is correctly formatted and unique. Correct any errors and reprocess the transaction.

40. Error Code: IB-045 Counterparty Not Approved

Description: Counterparty Not Approved

Solution:

Ensure the counterparty has been approved by the necessary parties. Obtain the required approvals and retry the operation.