Altibase FAQ | Error Messages

ERR-01002 (4098) Invalid character in use

Overview

This document describes the cause of the `ERR-01002 ( 4098) Invalid character in use` error, which can occur when Altibase encounters a character that cannot be interpreted using the database character set, and explains how to resolve it.

Version

All versions

Symptom

The following error may occur while processing character data, for example, when a `LIKE` operation is performed on Korean text.

```
ERR-01002 ( 4098) Invalid character in use
```

Cause

This error may occur when Altibase encounters a character that cannot be interpreted using the database character set while processing character data.

For example, if the database character set is `KSC5601` and the table contains a character outside the range supported by `KSC5601`, this error may occur during character string processing.

Action

Check the database and client character sets, and then identify the data that causes the error.

Check the Character Sets

Run the following query to check the database and current session character sets.

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```
SELECT *
  FROM V$NLS_PARAMETERS;
```

Check the following parameters:

- `NLS_CHARACTERSET` : Database character set
- `NLS_USE` : Client character set

The client character set must be compatible with the characters stored in the database.

Identify the Problematic Data

Identify the table and character column where the error occurs.

If the error occurs only for specific data, narrow the query range using a primary key or another condition to identify the affected row.

After identifying the row, use the `DUMP` function to check the byte values stored in the column.

```
SELECT ID,
       DUMP(NAME)
  FROM T1
 WHERE ID = 100;
```

Based on the `DUMP` result, verify whether the stored byte sequence represents a valid character in `NLS_CHARACTERSET` .

For example, if the database character set is `KSC5601` and the byte sequence represents a character that is not defined in `KSC5601` but is defined in `MS949` , the stored data contains a character outside the range supported by the database character set.

If the Character Set Configuration Is Incorrect

If the client character set does not match the actual character set of the input data, change `NLS_USE` to the appropriate character set.

If Invalid Character Data Is Found

Back up the affected data, replace the unsupported character with one that can be represented by the database character set, and reload the corrected data.

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