

SQLERR

SQLERR

Notes:

1. This command is only available with Natural for DB2, Natural SQL Gateway, and Natural for SQL/DS.
2. There are minor differences depending on whether the command is used with Natural for DB2, Natural SQL Gateway, or Natural for SQL/DS. These differences are marked accordingly in the following description.

The `SQLERR` command is used to obtain diagnostic information about the most recent SQL error.

When an SQL error occurs, Natural issues an appropriate error message. When you enter the `SQLERR` command, the following information on the most recent SQL error is displayed:

- the Natural error message number;
- the corresponding reason code (if applicable);
- for Natural for DB2: the variables `SQLSTATE` and `SQLCODE` returned by DB2
- for Natural SQL Gateway: the SQL code returned by the ConnecX SQL engine or the SQL database system;
- for Natural for SQL/DS: the variables `SQLSTATE` and `SQLCODE` returned by SQL/DS;
- the corresponding error message.

The `SQLERR` command can be issued either from the Natural `NEXT` prompt or from within a Natural program (by using the `FETCH` statement).

Sample `SQLERR` Diagnostic Information Screen (Natural for DB2)

```

***** SQLERR Diagnostic Information *****
----- NATURAL SQL Interface Codes -----
Return Code: 3700   Reason Code: 0       SQLSTATE : 52003   SQL code : -206
----- SQLCA -----
SQLERRP (DB2 Sub routine where error occurred)      : DSNXOGP
SQLERRD (DB2 Internal State)
  RDS Return Code          :          700
  DBSS Return Code        :           0
  Number of Rows Processed :           0
  Estimated Cost           :          11.2
  Syntax error on PREPARE or EXECUTE IMMEDIATE     :           0
  Buffer Manager ERROR Code :           0
SQLWARN (Warning Flags)
  Data truncated          :
  Null Values ignored (AVG,SUM,MAX,MIN)           :
  No. of columns greater than no. of host variables :
  UPDATE/DELETE without WHERE clause             :
  SQL Statement not valid in DB2                  :
  Adjustment to DATE/TIMESTAMP Variable made     :
DB2 Error Message :
DSNT4081 SQLCODE = -206, ERROR: THE OBJECT TABLE OR VIEW OF THE INSERT,
DELETE, OR UPDATE STATEMENT IS ALSO IDENTIFIED IN A FROM CLAUSE

```

Sample SQLERR Diagnostic Information Screen (Natural SQL Gateway)

```

*** SQLERR Diagnostic Information ***
----- Natural SQL Interface Codes -----
Return Code: 3700   Reason Code: 0       ZZN01   SQL code: -4017
----- SQLCA -----
SQLERRD (Additional Information)
  Number of Rows Processed          :           0
SQLWARN (Warning Flags)
  Data truncated                    :
  No. of columns greater than No. of host variables :
CNX Error Message :
4017(E): SERVER ERROR: ODBC:(HY000) NATIVE:(0) : Ambiguous table reference: (D
EMO) ? PERS_ID , NAME , ADDRESS , DATEOFBIRTH , SALARY FROM << Syntax Error >>
NSB.DEMO ?.

Enter-PF1---PF2---PF3---PF4---PF5---PF6---PF7---PF8---PF9---PF10--PF11--PF12---
      Error Exit  Expl      Parms  -      +      Prev Next Canc

```

Sample SQLERR Diagnostic Information Screen (Natural for SQL/DS)

```

*** SQLERR Diagnostic Information ***
----- NATURAL SQL Interface Codes -----
Return Code: 3700          Reason Code: 0          SQL code : -204
----- SQLCA -----
SQLERRP (Adabas SQL Subroutine where error occurred)      : ARIXOCA
SQLERRD (Adabas SQL Internal State)
  RDS Return Code                                         :          100
  DBSS Return Code                                        :           0
  Number of Rows Processed                               :           0
  Estimated Cost                                          :          1.0
  Syntax error on PREPARE or EXECUTE IMMEDIATE           :           0
  Buffer Manager ERROR Code                               :           0
SQLWARN (Warning Flags)
  Data truncated                                         :
  Null Values ignored(AVG,SUM,MAX,MIN)                   :
  No. of columns greater than no. of host variables     :
  UPDATE/DELETE without WHERE clause                    :
  SQL statement causes a performance degradation       :
  Adjustment to DATE/TIMESTAMP Variable made           :
SQL/DS Error Message :
SAG.SYSTABLES not found in system catalog

```