



Core SQL Feature Validator Summary

The following table lists the validating state for all core features included in the SQL standard, based on SQL-2016.

The Mimer SQL Validator can validate almost all SQL features, but sometimes information about a feature can only be determined by having access to an existing database. These cases are indicated by "*No (Catalog lookup)*" in the table below.

Feature	Feature Name	Validated
E011	Numeric data types	»
E011-01	INTEGER and SMALLINT data types (including all spellings)	Yes
E011-02	REAL, DOUBLE PRECISION, and FLOAT data types	Yes
E011-03	DECIMAL and NUMERIC data types	Yes
E011-04	Arithmetic operators	Yes
E011-05	Numeric comparison	Yes
E011-06	Implicit casting among the numeric data types	No (Catalog lookup)
E021	Character string types	»
E021-01	CHARACTER data type (including all its spellings)	Yes
E021-02	CHARACTER VARYING data type (including all its spellings)	Yes
E021-03	Character literals	Yes
E021-04	CHARACTER_LENGTH function	Yes
E021-05	OCTET_LENGTH function	Yes
E021-06	SUBSTRING function	Yes
E021-07	Character concatenation	Yes
E021-08	UPPER and LOWER functions	Yes
E021-09	TRIM function	Yes
E021-10	Implicit casting among the fixed-length and variable-length character string types	No (Catalog lookup)
E021-11	POSITION function	Yes
E021-12	Character comparison	Yes
E031	Identifiers	»
E031-01	Delimited identifiers	Yes
E031-02	Lower case identifiers	Yes
E031-03	Trailing underscore	Yes
E051	Basic query specification	»
E051-01	SELECT DISTINCT	Yes
E051-02	GROUP BY clause	Yes
E051-04	GROUP BY can contain columns not in <select-list>	No (Catalog lookup)
E051-05	Select list items can be renamed	Yes
E051-06	HAVING clause	Yes
E051-07	Qualified * in select list	Yes
E051-08	Correlation names in the FROM clause	Yes
E051-09	Rename columns in the FROM clause	Yes
E061	Basic predicates and search conditions	»
E061-01	Comparison predicate	Yes
E061-02	BETWEEN predicate	Yes
E061-03	IN predicate with list of values	Yes
E061-04	LIKE predicate	Yes
E061-05	LIKE predicate: ESCAPE clause	Yes
E061-06	NULL predicate	Yes

E061-07	Quantified comparison predicate	Yes
E061-08	EXISTS predicate	Yes
E061-09	Subqueries in comparison predicate	Yes
E061-11	Subqueries in IN predicate	Yes
E061-12	Subqueries in quantified comparison predicate	Yes
E061-13	Correlated subqueries	Yes
E061-14	Search condition	Yes
E071	Basic query expressions	»
E071-01	UNION DISTINCT table operator	Yes
E071-02	UNION ALL table operator	Yes
E071-03	EXCEPT DISTINCT table operator	Yes
E071-05	Columns combined via table operators need not have exactly the same data type	No (Catalog lookup)
E071-06	Table operators in subqueries	Yes
E081	Basic Privileges	»
E081-01	SELECT privilege at the table level	No (Catalog lookup)
E081-02	DELETE privilege	No (Catalog lookup)
E081-03	INSERT privilege at the table level	No (Catalog lookup)
E081-04	UPDATE privilege at the table level	No (Catalog lookup)
E081-05	UPDATE privilege at the column level	No (Catalog lookup)
E081-06	REFERENCES privilege at the table level	No (Catalog lookup)
E081-07	REFERENCES privilege at the column level	No (Catalog lookup)
E081-08	WITH GRANT OPTION	No (Catalog lookup)
E081-09	USAGE privilege	No (Catalog lookup)
E081-10	EXECUTE privilege	No (Catalog lookup)
E091	Set functions	»
E091-01	AVG	Yes
E091-02	COUNT	Yes
E091-03	MAX	Yes
E091-04	MIN	Yes
E091-05	SUM	Yes
E091-06	ALL quantifier	Yes
E091-07	DISTINCT quantifier	Yes
E101	Basic data manipulation	»
E101-01	INSERT statement	Yes
E101-03	Searched UPDATE statement	Yes
E101-04	Searched DELETE statement	Yes
E111	Single row SELECT statement	Yes
E121	Basic cursor support	»
E121-01	DECLARE CURSOR	Yes
E121-02	ORDER BY columns need not be in select list	No (Catalog lookup)
E121-03	Value expressions in ORDER BY clause	Yes
E121-04	OPEN statement	Yes
E121-06	Positioned UPDATE statement	Yes
E121-07	Positioned DELETE statement	Yes
E121-08	CLOSE statement	Yes
E121-10	FETCH statement: implicit NEXT	Yes
E121-17	WITH HOLD cursors	Yes
E131	Null value support (nulls in lieu of values)	Yes
E141	Basic integrity constraints	»
E141-01	NOT NULL constraints	No (Catalog lookup)
E141-02	UNIQUE constraints of NOT NULL columns	No (Catalog lookup)
E141-03	PRIMARY KEY constraints	No (Catalog lookup)
E141-04	Basic FOREIGN KEY constraint with the NO ACTION default for both referential delete action and referential update action	No (Catalog lookup)
E141-06	CHECK constraints	No (Catalog lookup)

E141-07	Column defaults	No (Catalog lookup)
E141-08	NOT NULL inferred on PRIMARY KEY	No (Catalog lookup)
E141-10	Names in a foreign key can be specified in any order	No (Catalog lookup)
E151	Transaction support	»
E151-01	COMMIT statement	Yes
E151-02	ROLLBACK statement	Yes
E152	Basic SET TRANSACTION statement	»
E152-01	SET TRANSACTION statement: ISOLATION LEVEL SERIALIZABLE clause	Yes
E152-02	SET TRANSACTION statement: READ ONLY and READ WRITE clauses	Yes
E153	Updatable queries with subqueries	Yes
E161	SQL comments using leading double minus	Yes
E171	SQLSTATE support	Yes
E182	Host language Binding (previously "Module Language")	Yes
F021	Basic information schema	»
F021-01	COLUMNS view	No (Catalog lookup)
F021-02	TABLES view	No (Catalog lookup)
F021-03	IEWS view	No (Catalog lookup)
F021-04	TABLE_CONSTRAINTS view	No (Catalog lookup)
F021-05	REFERENTIAL_CONSTRAINTS view	No (Catalog lookup)
F021-06	CHECK_CONSTRAINTS view	No (Catalog lookup)
F031	Basic schema manipulation	»
F031-01	CREATE TABLE statement to create persistent base tables	Yes
F031-02	CREATE VIEW statement	Yes
F031-03	GRANT statement	Yes
F031-04	ALTER TABLE statement: ADD COLUMN clause	Yes
F031-13	DROP TABLE statement: RESTRICT clause	Yes
F031-16	DROP VIEW statement: RESTRICT clause	Yes
F031-19	REVOKE statement: RESTRICT clause	Yes
F041	Basic joined table	»
F041-01	Inner join (but not necessarily the INNER keyword)	Yes
F041-02	INNER keyword	Yes
F041-03	LEFT OUTER JOIN	Yes
F041-04	RIGHT OUTER JOIN	Yes
F041-05	Outer joins can be nested	Yes
F041-07	The inner table in a left or right outer join can also be used in an inner join	Yes
F041-08	All comparison operators are supported (rather than just =)	Yes
F051	Basic date and time	»
F051-01	DATE data type (including support of DATE literal)	Yes
F051-02	TIME data type (including support of TIME literal) with fractional seconds precision of at least 0	Yes
F051-03	TIMESTAMP data type (including support of TIMESTAMP literal) with fractional seconds precision of at least 0 and 6	Yes
F051-04	Comparison predicate on DATE, TIME, and TIMESTAMP data types	Yes
F051-05	Explicit CAST between datetime types and character string types	Yes
F051-06	CURRENT_DATE	Yes
F051-07	LOCALTIME	Yes
F051-08	LOCALTIMESTAMP	Yes
F081	UNION and EXCEPT in views	Yes
F131	Grouped operations	»
F131-01	WHERE, GROUP BY, and HAVING clauses supported in queries with grouped views	Yes
F131-02	Multiple tables supported in queries with grouped views	Yes
F131-03	Set functions supported in queries with grouped views	Yes
F131-04	Subqueries with GROUP BY and HAVING clauses and grouped views	Yes
F131-05	Single row SELECT with GROUP BY and HAVING clauses and grouped views	Yes
F181	Multiple module support	Yes
F201	CAST function	Yes
F221	Explicit defaults	Yes

F261	CASE expression	»
F261-01	Simple CASE	Yes
F261-02	Searched CASE	Yes
F261-03	NULLIF	Yes
F261-04	COALESCE	Yes
F311	Schema definition statement	»
F311-01	CREATE SCHEMA	Yes
F311-02	CREATE TABLE for persistent base tables	Yes
F311-03	CREATE VIEW	Yes
F311-04	CREATE VIEW: WITH CHECK OPTION	Yes
F311-05	GRANT statement	Yes
F471	Scalar subquery values	Yes
F481	Expanded NULL predicate	Yes
F501	Features and conformance views	»
F501-01	SQL_FEATURES view	No (Catalog lookup)
F501-02	SQL_SIZING view	No (Catalog lookup)
F501-03	SQL_LANGUAGES view	No (Catalog lookup)
F812	Basic flagging	Yes
S011	Distinct data types	»
S011-01	USER_DEFINED_TYPES view	Yes
T321	Basic SQL-invoked routines	»
T321-01	User-defined functions with no overloading	Yes
T321-02	User-defined stored procedures with no overloading	Yes
T321-03	Function invocation	Yes
T321-04	CALL statement	Yes
T321-05	RETURN statement	Yes
T321-06	ROUTINES view	No (Catalog lookup)
T321-07	PARAMETERS view	No (Catalog lookup)
T631	IN predicate with one list element	Yes