Vertica SQL Cheat Sheet Cheat Sheet

by Placido via cheatography.com/69660/cs/17638/

Data Types		
BINARY	1 to 65.000	Fixed-length binary string
VARBINARY	1 to 65.000	Variable-length binary string
LONG VARBINARY	1 to 32.000.000	Long variable-length binary string
BYTEA	1 to 65.000	Variable-length binary string
RAW	1 to 65.000	Variable-length binary string
BOOLEAN	1	True or False or NULL
CHAR	1 to 65.000	Fixed-length character string
VARCHAR	1 to 65.000	Variable-length character string
LONG VARCHAR	1 to 32.000.000	Long variable-length character string
DATE	8	Represents a month, day, and year
TIME	8	Represents a time of day without timezone
DATETIME	8	Represents a date and time without timezone
SMALLDATETIME	8	Represents a date and time without timezone
TIME WITH TIMEZONE	8	Represents a time of day with timezone
TIMESTAMP	8	Represents a date and time without timezone

Data Types (cont)		
TIMESTAMP WITH TIMEZONE	8	Represents a date and time with timezone
INTERVAL	8	Measures the difference between two points in time
INTERVAL DAY TO SECOND	8	Represents an interval measured in days and seconds
INTERVAL YEAR TO MONTH	8	Represents an interval measured in years and months
DOUBLE PRECISION	8	Signed 64-bit IEEE floating point number, requiring 8 bytes of storage
FLOAT	8	Signed 64-bit IEEE floating point number, requiring 8 bytes of storage
FLOAT(n)	8	Signed 64-bit IEEE floating point number, requiring 8 bytes of storage
FLOAT8	8	Signed 64-bit IEEE floating point number, requiring 8 bytes of storage
REAL	8	Signed 64-bit IEEE floating point number, requiring 8 bytes of storage
INTEGER	8	Signed 64-bit integer, requiring 8 bytes of storage
INT	8	Signed 64-bit integer, requiring 8 bytes of storage

Data Types (cont)		
BIGINT	8	Signed 64-bit integer, requiring 8 bytes of storage
INT8	8	Signed 64-bit integer, requiring 8 bytes of storage
SMALLINT	8	Signed 64-bit integer, requiring 8 bytes of storage
TINYINT	8	Signed 64-bit integer, requiring 8 bytes of storage
DECIMAL	8+	8 bytes for the first 18 digits of precision, plus 8 bytes for each additional 19 digits
NUMERIC	8+	8 bytes for the first 18 digits of precision, plus 8 bytes for each additional 19 digits
NUMBER	8+	8 bytes for the first 18 digits of precision, plus 8 bytes for each additional 19 digits
MONEY	8+	8 bytes for the first 18 digits of precision, plus 8 bytes for each additional 19 digits
GEOMETRY	1 to 10.000.000	Coordinates expressed as (x,y) pairs, defined in the Cartesian plane

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Data Types (cont)

GEOGRAPHY	1 to 10.000.000	Coordinates expressed in longitude/latitude angular values, measured in degrees
UUID	16	Stores universally unique identifiers (UUIDs)

Select queries

Select all columns

```
SELECT * FROM tbl;
```

Select come columns

```
SELECT col1, col2 FROM tbl;
```

Select only unique records

```
SELECT DISTINCT COL1 FROM tbl WHERE condition;
```

Column alias with AS

```
SELECT col FROM tbl AS newname;
```

Order results

```
SELECT * FROM tbl ORDER BY col [ASC | DESC]
```

Group results

```
SELECT col1, SUM(col2) FROM tbl GROUP BY col1;
```