Oracle Data Types

Numeric

NUMBER (p, s)	Numeric data, with a precision of p and scale of s. Precision p ranges from 1 to 38, and scale ranges from -84 to 127 Range: -10^38 +1 through 10^38 - 1
BINARY_FLOAT	32-bit, single-precision floating-point number Range: from 1.17549E-38F to 3.40282E+38F
BINARY_DOUBLE	64-bit, double-precision floating-point number Range: From 2.22507485850720E-308 to 1.79769313486231E+308
INTEGER	Synonym for NUMBER(38) Range: -10^38 +1 through 10^38 - 1
FLOAT	Translated to NUMBER. Range: 1 to 126 binary digits, and up to 22 bytes
DECIMAL	Translated to NUMBER. Range: 1 to 126 binary digits, and up to 22 bytes
NUMERIC	Synonym for NUMBER
INT	Synonym for NUMBER(38)
SMALLINT	Synonym for NUMBER(38)
DOUBLE PRECISION	Synonym for FLOAT(126)
REAL	Synonym for FLOAT(63)

Date

DATE	Stores date and time values. From Jan 1, 4712 BC to Dec 31 9999 AD
TIMESTAMP [(p)]	A date value that stores time and fractional seconds. From Jan 1, 4712 BC to Dec 31 9999 AD. Fractional seconds (p) must be 0 to 9
TIMESTAMP [(p)] WITH TIME ZONE	A timestamp that stores data in the specified timezone From Jan 1, 4712 BC to Dec 31 9999 AD. Fractional seconds (p) must be 0 to 9
TIMESTAMP [(p)] WITH LOCAL TIME ZONE	A timestamp that stores data in your local timezone. From Jan 1, 4712 BC to Dec 31 9999 AD. Fractional seconds (p) must be 0 to 9
INTERVAL YEAR [(p)] TO MONTH	Stores a period of time in years and months. Up to 2 digits in the year
INTERVAL DAY [(p)] TO SECOND	Stores a period of time in days, hours, minutes, and seconds. Between 0 and 9 digits in the day, between 0 and 9 digits fractional seconds

Character

CHAR (s)	Fixed-length character with a length of s. Up to 2,000 bytes.
NCHAR (s)	Fixed length national character with a length of s. Up to 2,000 bytes.
VARCHAR	Not implemented in Oracle.
VARCHAR2 (s)	Variable-length character string with a maximum length of s bytes. Up to 32,767 bytes
NVARCHAR2 (s)	Variable-length national character string with a maximum length of s bytes. Up to 32,767 bytes
LONG	Variable-length character string. Larger than VARCHAR2. Deprecated. Up to 2GB
RAW (s)	Raw binary data of length size. Up to 32,767 bytes
LONG RAW	Raw binary data of variable length. Deprecated. Up to 2 GB
CHARACTER VARYING	Synonym for VARCHAR2
CHARACTER	Synonym for CHAR
BLOB	Stores large unstructured binary objects. Recommended for JSON fields before Oracle 21c Up to 8 TB to 128 TB (4 GB -1 * (database block size))
CLOB	Stores large single-byte and multi-byte objects. Up to 8 TB to 128 TB (4 GB -1 * (database block size))
NCLOB	Stores Unicode data. Up to 8 TB to 128 TB (4 GB -1 * (database block size))
JSON	Data type to store JSON data. New in Oracle 21c

Other

BFILE	A file locator that points to a file on the server. Up to 4GB
ROWID	Fixed-length binary data for a database row ID. Up to 10 bytes
UROWID	Universal RowID. Up to 4,000 bytes