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The value of the initialization parameter MAX_STRING_SIZE affects the following: Each row in the database has an address. The sections that follow describe the two forms of row address in an Oracle Database. The rows in heap-organized tables that are rowids. You can examine a rowid address by querying the pseudocolumn ROWID. Values of this pseudocolumn are strings representing the address of each row. These strings have the data type ROWID. You can also create tables and clusters that contain actual columns having the ROWID data type. Oracle Database does not guarantee that the values of such columns are valid rowids. Refer to Chapter 3, "Pseudocolumns" for more information on the ROWID pseudocolumn. Rowids contain the following information: The data block of the data file containing the row. The length of this string depends on your operating system. The row in the data block. The database file containing the row. The first data file has the number 1. The length of this string depends on your operating system. The data object number, which is an identification number assigned to every database segment. You can retrieve the data object number from the data dictionary views USER_OBJECTS, DBA_OBJECTS, and ALL_OBJECTS. Objects that share the same segment (clustered tables in the same cluster, for example) have the same object number. Rowids are stored as base 64 values that can contain the characters A-Z, a-z, 0-9, and the plus sign (+) and forward slash (/). Rowids are not available directly. You can use the supplied package DBMS_ROWID to interpret rowid contents. The package functions extract and provide information on the four rowid elements listed above. The rows of some tables have addresses that are not physical or permanent or were not generated by Oracle Database. For example, the row addresses of index-organized tables are stored in index leaves, which can move. Rowids of foreign tables (such as DB2 tables accessed through a gateway) are not standard Oracle rowids. Oracle uses universal rowids (urowids) to store the addresses of index-organized and foreign tables. Index-organized tables have logical urowids and foreign tables have foreign urowids. Both types of urowid are stored in the ROWID pseudocolumn (as are the physical rowids of heap-organized tables). Oracle creates logical rowids based on the primary key of the table. The logical rowids do not change as long as the primary key does not change. The ROWID pseudocolumn of an index-organized table has a data type of UROWID. You can access this pseudocolumn as you would the ROWID pseudocolumn of a heap-organized table (using a SELECT ... ROWID statement). If you want to store the rowids of an index-organized table, then you can define a column of type UROWID for the table and retrieve the value of the ROWID pseudocolumn into that column. SQL statements that create tables and clusters can also use ANSI data types and data types from the IBM products SQL/DS and DB2. Oracle recognizes the ANSI or IBM data type name that differs from the Oracle Database data type name. It converts the data type to the equivalent Oracle data type, records the Oracle data type as the name of the column data type, and stores the column data in the Oracle data type based on the conversions shown in the tables that follow. Table 2-6 ANSI Data Types Converted to Oracle Data Types ANSI SQL Data Type Oracle Data Type CHARACTER(n) CHAR(n) CHARACTER VARYING(n) CHAR VARYING(n) VARCHAR2(n) NATIONAL CHARACTER(n) NCHAR(n) NCHAR(n) NATIONAL CHARACTER VARYING(n) NATIONAL CHAR VARYING(n) NCHAR VARYING(n) NVARCHAR2(n) NUMERIC(p,s) DECIMAL(p,s) (Note 1) NUMBER(p,s) INTEGER INT SMALLINT NUMBER(p,0) FLOAT (Note 2) DOUBLE PRECISION (Note 3) REAL (Note 4) FLOAT(126) FLOAT(126) FLOAT(63) Notes: The NUMERIC and DECIMAL data types can specify only fixed-point numbers. For those data types, the scale (s) defaults to 0. The FLOAT data type is a floating-point number with a binary precision b. The default precision for this data type is 126 binary, or 38 decimal. The DOUBLE PRECISION data type is a floating-point number with binary precision 126. The REAL data type is a floating-point number with a binary precision of 63, or 18 decimal. Do not define columns with the following SQL/DS and DB2 data types, because they have no corresponding Oracle data type: GRAPHIC LONG VARGRAPHIC VARGRAPHIC TIME Note that data of type TIME can also be expressed as Oracle datetime data. Table 2-7 SQL/DS and DB2 Data Types Converted to Oracle Data Types SQL/DS or DB2 Data Type Oracle Data Type CHARACTER(n) CHAR(n) VARCHAR(n) VARCHAR(n) LONG VARCHAR LONG DECIMAL(p,s) (Note 1) NUMBER(p,s) INTEGER SMALLINT NUMBER(p,0) FLOAT (Note 2) NUMBER Notes: The DECIMAL data type can specify only fixed-point numbers. For this data type, s defaults to 0. The FLOAT data type is a floating-point number with a binary precision b. The default precision for this data type is 126 binary or 38 decimal. User-defined data types use Oracle built-in data types and other user-defined data types as the building blocks of object types that model the structure and behavior of data in applications. The sections that follow describe the various categories of user-defined types. Object types are abstractions of the real-world entities, such as purchase orders, that application programs deal with. An object type is a schema object with three kinds of components: A name, which identifies the object type uniquely within that schema. Attributes, which are built-in types or other user-defined types. Attributes model the structure of the real-world entity. Methods, which are functions or procedures written in PL/SQL and stored in the database, or written in a language like C or Java and stored externally. Methods implement operations the application can perform on the real-world entity. An object identifier (represented by the keyword OID) uniquely identifies an object and enables you to reference the object from other objects or from relational tables. A data type category called REF represents such references. A REF data type is a container for an object identifier. REF values are pointers to objects. When a REF value points to a nonexistent object, the REF is said to be "dangling". A dangling REF is different from a null REF. To determine whether a REF is dangling or not, use the condition IS [NOT] DANGLING. For example, given object view oc_orders in the sample schema oe, the column customer_ref is of type REF to type customer_typ, which has an attribute cust_email: SELECT o.customer_ref,cust_email FROM oc_orders o WHERE o.customer_ref IS NOT DANGLING; An array is an ordered set of data elements. All elements of a given array are of the same data type. Each element has an index, which is a number corresponding to the position of the element in the array. The number of elements in an array is the size of the array. Oracle arrays are of variable size, which is why they are called varrays. You must specify a maximum size when you declare the varray. When you declare a varray, it does not allocate space. It defines a type, which you can use as: The data type of a column of a relational table An object type attribute A PL/SQL variable, parameter, or function return type Oracle normally stores an array object either in line (as part of the row data) or out of line (in a LOB), depending on its size. However, if you specify separate storage characteristics for a varray, then Oracle stores it out of line, regardless of its size. Refer to the varray_col properties of CREATE TABLE for more information about varray storage. A nested table type models an unordered set of elements. The elements may be built-in types or user-defined types. You can view a nested table as a single-column table or, if the nested table is an object type, as a multicolunn table, with a column for each attribute of the object type. A nested table definition does not allocate space. It defines a type, which you can use to declare: The data type of a column of a relational table An object type attribute A PL/SQL variable, parameter, or function return type When a nested table appears as the type of a column in a relational table or as an attribute of the underlying object type of an object table, Oracle stores all of the nested table data in a single table, which it associates with the enclosing relational or object table. Oracle provides SQL-based interfaces for defining new types when the built-in or ANSI-supported types are not sufficient. The behavior for these types can be implemented in C/C++, Java, or PL/SQL. Oracle Database automatically provides the low-level infrastructure services needed for input-output, heterogeneous client-side access for new data types, and optimizations for data transfers between the application and the database. These interfaces can be used to build user-defined (or object) types and are also used by Oracle to create some commonly useful data types. Several such data types are supplied with the server, and they serve both broad horizontal application areas (for example, the Any types) and specific vertical ones (for example, the spatial types). The Oracle-supplied types, along with cross-references to the documentation of their implementation and use, are described in the following sections: Any Types XML Types Spatial Types Media Types The Any types provide highly flexible modeling of procedure parameters and table columns where the actual type is not known. These data types let you dynamically encapsulate and access type descriptions, data instances, and sets of data instances of any other SQL type. These types have OCI and PL/SQL interfaces for construction and access. This type can contain a type description of any named SQL type or unnamed transient type. This type contains an instance of a given type, with data, plus a description of the type. ANYDATA can be used as a table column data type and lets you store heterogeneous values in a single column. The values can be of SQL built-in types as well as user-defined types. This type contains a description of a given type plus a set of data instances of that type. ANYDATASET can be used as a procedure parameter data type where such flexibility is needed. The values of the data instances can be of SQL built-in types as well as user-defined types. Extensible Markup Language (XML) is a standard format developed by the World Wide Web Consortium (W3C) for representing structured and unstructured data on the World Wide Web. Universal resource identifiers (URIs) identify resources such as Web pages anywhere on the Web. Oracle provides types to handle XML and URI data, as well as a class of URIs called DBURIRef types to access data stored within the database itself. It also provides a set of types to store and access both external and internal URIs from within the database. This Oracle-supplied type can be used to store and query XML data in the database. XMLType has member functions you can use to access, extract, and query the XML data using XPath expressions. XPath is another standard developed by the W3C committee to traverse XML documents. Oracle XMLType functions support many W3C XPath expressions. Oracle also provides a set of SQL functions and PL/SQL packages to create XMLType values from existing relational or object-relational data. XMLType is a system-defined type, so you can use it as an argument of a function or as the data type of a table or view column. You can also create tables and views of XMLType. When you create an XMLType column in a table, you can choose to store the XML data in a CLOB column, as binary XML (stored internally as a CLOB), or object relationally. You can also register the schema (using the DBMS_XMLSCHEMA package) and create a table or column conforming to the registered schema. In this case Oracle stores the XML data in underlying object-relational columns by default, but you can specify storage in a CLOB or binary XML column even for schema-based data. Queries and DML on XMLType columns operate the same regardless of the storage mechanism. Oracle supplies a family of URI types—URIType, DBURIType, XDBURIType, and HTTPURIType—which are related by an inheritance hierarchy. URIType is an object type and the others are subtypes. Since URIType is the supertype, you can create columns of this type and store DBURIType or HTTPURIType type instances in this column. HTTPURIType You can use HTTPURIType to store URIs to external Web pages or to files. Oracle accesses these files using HTTP (Hypertext Transfer Protocol). XDBURIType You can use XDBURIType to expose documents in the XML database hierarchy as URIs that can be embedded in any URIType column in a table. The XDBURIType consists of a URL, which comprises the hierarchical name of the XML document to which it refers and an optional fragment representing the XPath syntax. The fragment is separated from the URL part by a pound sign (#). The following lines are examples of XDBURIType: /home/oe/doc1.xml /home/oe/doc1.xml#/orders/order_item DBURIType DBURIType can be used to store DBURIRef values, which reference data inside the database. Storing DBURIRef values lets you reference data stored inside or outside the database and access the data consistently. DBURIRef values use an XPath-like representation to reference data inside the database. If you imagine the database as an XML tree, then you would see the tables, rows, and columns as elements in the XML document. For example, the sample human resources user hr would see the following XML tree: 205 Higgins 12008 ... The DBURIRef is an XPath expression over this virtual XML document. So to reference the SALARY value in the EMPLOYEES table for the employee with employee number 205, you can write a DBURIRef as /HR/EMPLOYEES/ROW[EMPLOYEE_ID=205]/SALARY Using this model, you can reference data stored in CLOB columns or other columns and expose them as URIs to the external world. Oracle also provides the URIFactory package, which can create and return instances of the various subtypes of the URITypes. The package analyzes the URL string, identifies the type of URL (HTTP, DBUR, and so on), and creates an instance of the subtype. To create a DBURIRef instance, the URL must begin with the prefix /radb. For example, URIFactory.getURL('/radb/HR/EMPLOYEES') would create a DBURIType instance and URIFactory.getURL('/sys/schema') would create an XDBURIType instance. Oracle Spatial and Graph is designed to make spatial data management easier and more natural to users of location-enabled applications, geographic information system (GIS) applications, and geoinaging applications. After the spatial data is stored in an Oracle Database, you can easily manipulate, retrieve, and relate it to all the other data stored in the database. The following data types are available only if you have installed Oracle Spatial and Graph. The geometric description of a spatial object is stored in a single row, in a single column of object type SDO_GEOMETRY in a user-defined table. Any table that has a column of type SDO_GEOMETRY must have another column, or set of columns, that defines a unique primary key for that table. Tables of this sort are sometimes called geometry tables. The SDO_GEOMETRY object type has the following definition: CREATE TYPE SDO_GEOMETRY AS OBJECT (sgo_elem info SDO_ELEM_INFO_ARRAY, sdo_ordinates SDO_ORDINATE_ARRAY); / This type describes a topology geometry, which is stored in a single row, in a single column of object type SDO_TOPO_GEOMETRY in a user-defined table. The SDO_TOPO_GEOMETRY object type has the following definition: CREATE TYPE SDO_TOPO_GEOMETRY AS OBJECT (tg_elem info NUMBER, tg_id NUMBER, tg_layer_id NUMBER, topology_id NUMBER); / Oracle Multimedia uses object types, similar to Java or C++ classes, to describe multimedia data. An instance of these object types consists of attributes, including metadata and the media data, and methods. The Multimedia data types are created in the ORDSYS schema. Public synonyms exist for all the data types, so you can access them without specifying the schema name. Oracle Multimedia provides the following object types: ORDAudio Supports the storage and management of audio data. ORDDicom Supports the storage and management of Digital Imaging and Communications in Medicine (DICOM), the format universally recognized as the standard for medical imaging. ORDDoc Supports storage and management of any type of media data, including audio, image and video data. Use this type when you want all media to be stored in a single column. ORDImage Supports the storage and management of image data. ORDVideo Supports the storage and management of video data. The following data types provide compliance with the ISO-IEC 13249-5 Still Image standard, commonly referred to as SQL/MM StillImage: SIAverageColor Represents a feature that characterizes an image by its average color. SIColorEncapsulates color values. SIColorHistogram Represents a feature that characterizes an image by the relative frequencies of the colors exhibited by samples of the raw image. SIFeatureList A list containing up to four of the image features represented by the preceding object types (SIAverageColor, SIColorHistogram, SIPositionalColor, and SITexture), where each feature is associated with a feature weight. SIPositionalColor Given an image divided into n by m rectangles, the SIPositionalColor object type represents the feature that characterizes an image by the n by m most significant colors of the rectangles. SIIStillImage Represents digital images with inherent image characteristics such as height, width, and format. SITexture Represents a feature that characterizes an image by the size of repeating items (coarseness), brightness variations (contrast), and predominant direction (directionality).

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