

Database URI TYPES

Oracle supports the `UriType` family of types that can be used to store and query Uri-refs inside the database. The `UriType` itself is an abstract object type and the `HTTPURITYPE`, `XDBURITYPE` and `DBURITYPE` are subtypes of it.

You can create a `UriType` column and store instances of the `DBURITYPE`, `XDBURITYPE` or the `HTTPURITYPE` inside of it. You can also define your own subtypes of the `UriType` to handle different URL protocols.

Oracle also provides a `UriFactory` package that can be used as a factory method to automatically generate various instances of these `UriTypes` by scanning the prefix, such as `http://` or `/oradb`. You can also register your subtype and provide the prefix that you support. For instance, if you have written a subtype to handle the gopher protocol, you can register the prefix `gopher://` to be handled by your subtype. The `UriFactory` will then generate your subtype instance for any URL starting with that prefix.

This chapter contains the following topics:

- [Summary of URITYPE Supertype Subprograms](#)
- [Summary of HTTPURITYPE Subtype Subprograms](#)
- [Summary of DBURITYPE Subtype Subprograms](#)
- [Summary of XDBURITYPE Subtype Subprograms](#)
- [Summary of URIFACTORY Package Subprograms](#)

See Also:

— *Oracle XML DB Developer's Guide*

Summary of URITYPE Supertype Subprograms

The `UriType` is the abstract super type. It provides a standard set of functions to get the value pointed to by the URI. The actual implementation of the protocol must be defined by the subtypes of this type.

Instances of this type cannot be created directly. However, you can create columns of this type and store subtype instances in it, and also select from columns without knowing the instance of the URL stored.

Table 311-1 URITYPE Type Subprograms

Method	Description
GETBLOB	Returns the <code>BLOB</code> located at the address specified by the URL.
GETCLOB	Returns the <code>CLOB</code> located at the address specified by the URL.

Table 311-1 (Cont.) URITYPE Type Subprograms

Method	Description
GETCONTENTTYPE	Returns the URL, in escaped format, stored inside the <code>UriType</code> instance.
GETEXTERNALURL	Returns the URL, in escaped format, stored inside the <code>UriType</code> instance.
GETURL	Returns the URL, in non-escaped format, stored inside the <code>UriType</code> instance.
GETXML	Returns the <code>XMLType</code> located at the address specified by the URL.

UriType Supertype GETBLOB

This function returns the `BLOB` located at the address specified by the URL.

This function can be overridden in the subtype instances. The options are described below.

This function returns the `BLOB` located at the address specified by the URL.

Syntax

```
MEMBER FUNCTION getBlob()  
    RETURN BLOB;
```

This function returns the `BLOB` located at the address specified by the URL and the content type.

Syntax

```
MEMBER FUNCTION getBlob(content OUT VARCHAR2)  
    RETURN BLOB;
```

This function returns the `BLOB` located at the address specified by the URL in the specified character set.

Syntax

```
FUNCTION getBlob(csid IN NUMBER)  
    RETURN BLOB;
```

Table 311-2 UriType Supertype GETBLOB Parameters

Parameter	IN / OUT	Description
<code>content</code>	(OUT)	Content type of the document to which URI is pointing.
<code>csid</code>	(IN)	Character set id of the document. Must be a valid Oracle id and greater than 0; otherwise returns an error

UriType Supertype GETCLOB

This function returns the CLOB located at the address specified by the URL.

This function can be overridden in the subtype instances. This function returns either a permanent CLOB or a temporary CLOB. If a temporary CLOB is returned, it must be freed. The options are described below.

This function returns the CLOB located at the address specified by the URL.

Syntax

```
MEMBER FUNCTION getClob()  
    RETURN CLOB;
```

This function returns the CLOB located at the address specified by the URL and the content type.

Syntax

```
MEMBER FUNCTION getClob(content OUT VARCHAR2)  
    RETURN CLOB;
```

Table 311-3 UriType Supertype GETCLOB Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.

UriType Supertype GETCONTENTTYPE

This function returns the content type of the document pointed to by the URI.

This function can be overridden in the subtype instances. This function returns the content type as VARCHAR2.

Syntax

```
MEMBER FUNCTION getContentType()  
    RETURN VARCHAR2;
```

UriType Supertype GETEXTERNALURL

This function returns the URL, in escaped format, stored inside the UriType instance.

The subtype instances override this member function to provide additional semantics. For instance, the HTTPURITYPE function does not store the prefix `http://` in the URL itself. When generating the external URL, it appends the prefix and generates it. For this reason, use the `getExternalUrl` function or the `getUrl` function to get to the URL value instead of using the attribute present in the UriType instance.

Syntax

```
MEMBER FUNCTION getExternalUrl()  
    RETURN varchar2;
```

UriType Supertype GETURL

This function returns the URL, in non-escaped format, stored inside the `UriType` instance.

The subtype instances override this member function to provide additional semantics. For instance, the `HTTPURITYPE` function does not store the prefix `http://` in the URL itself. When generating the external URL, it appends the prefix and generates it. For this reason, use the `getExternalUrl` function or the `getUrl` function to get to the URL value instead of using the attribute present in the `UriType` instance.

Syntax

```
MEMBER FUNCTION getUrl()  
RETURN varchar2;
```

UriType Supertype GETXML

This function returns the `XMLType` located at the address specified by the URL.

This function can be overridden in the subtype instances. The options are described below.

This function returns the `XMLType` located at the address specified by the URL.

Syntax

```
MEMBER FUNCTION getXML()  
RETURN XMLType;
```

This function returns the `XMLType` located at the address specified by the URL and the content type.

Syntax

```
MEMBER FUNCTION getXML(content OUT VARCHAR2)  
RETURN XMLType;
```

Table 311-4 UriType Supertype GETXML Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.

Summary of HTTPURITYPE Subtype Subprograms

The `HTTPURITYPE` is a subtype of the `UriType` that provides support for the HTTP protocol. This uses the `UTL_HTTP` package underneath to access the HTTP URLs. Proxy and secure wallets are not supported in this release.

Table 311-5 HTTPURITYPE Type Subprorgams

Method	Description
CREATEURI	Creates an instance of <code>HTTPURITYPE</code> from the given URI.
GETBLOB	Returns the <code>BLOB</code> located at the address specified by the URL.

Table 311-5 (Cont.) HTTPURITYPE Type Subprorgams

Method	Description
GETCLOB	Returns the CLOB located at the address specified by the URL.
GETCONTENTTYPE	Returns the content type of the document pointed to by the URI.
GETEXTERNALURL	Returns the URL, in escaped format, stored inside the UriType instance.
GETURL	Returns the URL, in non-escaped format, stored inside the UriType instance.
GETXML	Returns the XMLType located at the address specified by the URL
HTTPURITYPE	Creates an instance of HTTPURITYPE from the given URI.

HttpUriType Subtype CREATEURI

This static function constructs a HTTPURITYPE instance. The HTTPURITYPE instance does not contain the prefix `http://` in the stored URL.

Syntax

```
STATIC FUNCTION createUri(  
    url IN varchar2)  
RETURN HTTPURITYPE;
```

Table 311-6 HttpUriType Subtype CREATEURI Parameters

Parameter	IN / OUT	Description
<code>url</code>	(IN)	The URL string containing a valid HTTP URL; escaped format.

HttpUriType Subtype GETBLOB

This function returns the BLOB located at the address specified by the HTTP URL.

The subprograms of the URI Subtype HTTPURITYPE member subprogram GETBLOB are described below.

This function returns the BLOB located at the address specified by the HTTP URL.

Syntax

```
MEMBER FUNCTION getBlob()  
RETURN BLOB;
```

This function returns the BLOB located at the address specified by the HTTP URL and the content type.

Syntax

```
MEMBER FUNCTION getBlob(content OUT VARCHAR2)  
RETURN BLOB;
```

This function returns the `BLOB` located at the address specified by the URL in the specified character set.

Syntax

```
FUNCTION getBlob(csid IN NUMBER)
RETURN BLOB;
```

Table 311-7 HttpUriType Subtype GETBLOB Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.
csid	(IN)	Character set id of the document. Must be a valid Oracle id and greater than 0; otherwise returns an error.

HttpUriType Subtype GETCLOB

This function returns the `CLOB` located by the HTTP URL address. If a temporary `CLOB` is returned, it must be freed.

The subprograms of the URI Subtype HTTPURITYPE member subprogram GETCLOB are described below.

Returns the `CLOB` located at the address specified by the HTTP URL.

Syntax

```
MEMBER FUNCTION getClob()
RETURN CLOB;
```

Returns the `CLOB` located at the address specified by the HTTP URL and the content type.

Syntax

```
MEMBER FUNCTION getClob(content OUT VARCHAR2)
RETURN CLOB;
```

Table 311-8 HttpUriType Subtype GETCLOB Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.

HttpUriType Subtype GETCONTENTTYPE

This function returns the content type of the document pointed to by the URI.

Syntax

```
MEMBER FUNCTION getContentType()
RETURN VARCHAR2;
```

HttpUriType Subtype GETEXTERNALURL

This function returns the URL, in escaped format, stored inside the `HTTPURITYPE` instance. The subtype instances override this member function.

The `HTTPURITYPE` function does not store the prefix `http://`, but generates it for the external URL.

Syntax

```
MEMBER FUNCTION getExternalUrl()  
RETURN varchar2;
```

HttpUriType Subtype GETURL

This function returns the URL, in non-escaped format, stored inside the `HTTPURITYPE` instance.

Syntax

```
MEMBER FUNCTION getUrl()  
RETURN varchar2;
```

HttpUriType Subtype GETXML

This function returns the `XMLType` located at the address specified by the URL. An error is thrown if the address does not point to a valid XML document.

The subprograms of the URI Subtype `HttpUriType` member subprogram `GETXML` are described below.

This function returns the `XMLType` located at the address specified by the URL.

Syntax

```
MEMBER FUNCTION getXML()  
RETURN XMLType;
```

This function returns the `XMLType` located at the address specified by the URL and the content type.

Syntax

```
MEMBER FUNCTION getXML(content OUT VARCHAR2)  
RETURN XMLType;
```

Table 311-9 HttpUriType Subtype GETXML Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.

HttpUriType Subtype HTTPURITYPE

This constructs a `HTTPURITYPE` instance. The `HTTPURITYPE` instance does not contain the prefix `http://` in the stored URL.

Syntax

```
CONSTRUCTOR FUNCTION HTTPURITYPE (  
    url IN VARCHAR2);
```

Table 311-10 HttpUriType Subtype HTTPURITYPE Parameters

Parameter	IN / OUT	Description
url	(IN)	The URL string containing a valid HTTP URL. The URL string is expected in escaped format. For example, non-url characters are represented as the hexadecimal value for the UTF-8 encoding of those characters.

Summary of DBURITYPE Subtype Subprograms

The `DBURITYPE` is a subtype of the `UriType` that provides support for `DBUri`-refs. A `DBUri`-ref is an intra-database URL that can be used to reference any row or row-column data in the database.

The URL is specified as an XPath expression over a XML visualization of the database. The schemas become elements which contain tables and views. These tables and views further contain the rows and columns inside them.

Table 311-11 DBURITYPE Type Subprograms

Method	Description
CREATEURI	Constructs a <code>DBURITYPE</code> instance.
DBURITYPE	Creates an instance of <code>DBURITYPE</code> from the given URI.
GETBLOB	Returns the <code>BLOB</code> located at the address specified by the <code>DBURITYPE</code> instance.
GETCLOB	Returns the <code>CLOB</code> located at the address specified by the <code>DBURITYPE</code> instance.
GETCONTENTTYPE	Returns the content type of the document pointed to by the URI.
GETEXTERNALURL	Returns the URL, in escaped format, stored inside the <code>DBURITYPE</code> instance.
GETURL	Returns the URL, in non-escaped format, stored inside the <code>DBURITYPE</code> instance.
GETXML	Returns the <code>XMLType</code> located at the address specified by the URL.

DBUriType Subtype CREATEURI

This static function constructs a `DBURITYPE` instance. Parses the URL given and creates a `DBURITYPE` instance.

Syntax

```
STATIC FUNCTION createUri(  
    url IN varchar2)  
RETURN DBURITYPE;
```

Table 311-12 DBUriType Subtype CREATEURI Parameters

Parameter	IN / OUT	Description
url	(IN)	The URL string, in escaped format, containing a valid <code>DBURITYPE</code> .

DBUriType Subtype DBURITYPE

This constructs a `DBURITYPE` instance.

Syntax

```
CONSTRUCTOR FUNCTION DBURITYPE(  
    url IN varchar2);
```

Table 311-13 DBUriType Subtype DBURITYPE Parameters

Parameter	IN / OUT	Description
url	(IN)	The URL string containing a valid <code>DBURITYPE</code> . The URL string is expected in escaped format. For example, non-URL characters are represented as the hexadecimal value for the UTF-8 encoding of those characters.

DBUriType Subtype GETBLOB

This function returns the `BLOB` located at the address specified by the URL.

The subprograms of the URI Subtype `DBURITYPE` member subprogram `GETBLOB` are described below. The options are described in the following table.

This function returns the `BLOB` located at the address specified by the URL.

Syntax

```
MEMBER FUNCTION getBlob()  
RETURN BLOB;
```

This function returns the `BLOB` located at the address specified by the URL and the content type.

Syntax

```
MEMBER FUNCTION getBlob(content OUT VARCHAR2)  
RETURN BLOB;
```

This function returns the `BLOB` located at the address specified by the URL in the specified character set.

Syntax

```
FUNCTION getBlob(csid IN NUMBER)
RETURN BLOB;
```

Table 311-14 DBUriType Subtype GETBLOB Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.
csid	(IN)	Character set id of the document. Must be a valid Oracle id and greater than 0; otherwise returns an error.

DBUriType Subtype GETCLOB

This function returns the `CLOB` located at the address specified by the `DBURITYPE` instance.

If a temporary `CLOB` is returned, it must be freed. The document returned may be an XML document or a text document. When the `DBUri-ref` identifies an element in the XPath, the result is a well-formed XML document. On the other hand, if it identifies a text node, then what is returned is only the text content of the column or attribute. The options are described below.

The following function returns the `CLOB` located at the address specified by the `DBURITYPE` instance.

Syntax

```
MEMBER FUNCTION getClob()
RETURN CLOB;
```

The following function returns the `CLOB` located at the address specified by the `DBURITYPE` instance and the content type.

Syntax

```
MEMBER FUNCTION getClob(content OUT VARCHAR2)
RETURN CLOB;
```

Table 311-15 DBUriType Subtype GETCLOB Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.

DBUriType Subtype GETCONTENTTYPE

This function returns the content type of the document pointed to by the URI.

Syntax

```
MEMBER FUNCTION getContentType()
RETURN VARCHAR2;
```

DBUriType Subtype GETEXTERNALURL

This function returns the URL, in escaped format, stored inside the `DBURITYPE` instance. The `DBUri` servlet URL that processes the `DBURITYPE` has to be appended before using the escaped URL in Web pages.

Syntax

```
MEMBER FUNCTION getExternalUrl()  
RETURN varchar2;
```

DBUriType Subtype GETURL

This function returns the URL, in non-escaped format, stored inside the `DBURITYPE` instance.

Syntax

```
MEMBER FUNCTION getUrl()  
RETURN varchar2;
```

DBUriType Subtype GETXML

This function returns the `XMLType` located at the address specified by the URL.

The subprograms of the URI Subtype `DBPURITYPE` member subprogram `GETXML` are described below. The options are described in the following table.

This function returns the `XMLType` located at the address specified by the URL.

Syntax

```
MEMBER FUNCTION getXML()  
RETURN XMLType;
```

This function returns the `XMLType` located at the address specified by the URL and the content type.

Syntax

```
MEMBER FUNCTION getXML(content OUT VARCHAR2)  
RETURN XMLType;
```

Table 311-16 DBUriType Subtype GETXML Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.

Summary of XDBURITYPE Subtype Subprograms

`XDBURITYPE` is a new subtype of `URITYPE`. It provides a way to expose documents in the Oracle XML DB hierarchy as URIs that can be embedded in any `URITYPE` column in a table.

The URL part of the URI is the hierarchical name of the XML document it refers to. The optional fragment part uses the XPath syntax, and is separated from the URL part by '#'. The more general XPointer syntax for specifying a fragment is not currently supported.

Table 311-17 XDBURITYPE Type Subprograms

Method	Description
CREATEURI	Returns the <code>UriType</code> corresponding to the specified URL.
GETBLOB	Returns the <code>BLOB</code> corresponding to the contents of the document specified by the <code>XDBURITYPE</code> instance.
GETCLOB	Returns the <code>CLOB</code> corresponding to the contents of the document specified by the <code>XDBURITYPE</code> instance.
GETCONTENTTYPE	Returns the content type of the document pointed to by the URI.
GETEXTERNALURL	Returns the URL, in escaped format, stored inside the <code>XDBURITYPE</code> instance.
GETURL	Returns the URL, in non-escaped format, stored inside the <code>XDBURITYPE</code> instance.
GETXML	Returns the <code>XMLType</code> corresponding to the contents of the document specified by the URL.
XDBURITYPE	Creates an instance of <code>XDBURITYPE</code> from the given URI.

XDBUriType Subtype CREATEURI

This static function constructs a `XDBURITYPE` instance. It parses the given URL and creates a `XDBURITYPE` instance.

Syntax

```
STATIC FUNCTION createUri(
    url IN varchar2)
RETURN XDBURITYPE
```

Parameter	IN / OUT	Description
<code>url</code>	(IN)	The URL string, in escaped format, containing a valid <code>XDBURITYPE</code> .

XDBUriType Subtype GETBLOB

This function returns the `BLOB` located at the address specified by the `XDBURITYPE` instance.

The subprograms of the URI Subtype `XDBURITYPE` member subprogram `GETBLOB` are described below. The options are described in the following table.

This function returns the `BLOB` located at the address specified by the URL.

Syntax

```
MEMBER FUNCTION getBlob()
RETURN BLOB;
```

This function returns the `BLOB` located at the address specified by the URL and the content type.

Syntax

```
MEMBER FUNCTION getBlob(content OUT VARCHAR2)
    RETURN BLOB;
```

This function returns the `BLOB` located at the address specified by the URL in the specified character set.

Syntax

```
FUNCTION getBlob(csid IN NUMBER)
    RETURN BLOB;
```

Table 311-18 XDBUriType Subtype GETBLOB Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.
csid	(IN)	Character set id of the document. Must be a valid Oracle id and greater than 0; otherwise returns an error.

XDBUriType Subtype GETCLOB

This function returns the `CLOB` located at the address specified by the `XDBURITYPE` instance. If a temporary `CLOB` is returned, it must be freed.

The subprograms of the URI Subtype `XDBURITYPE` member subprogram `GETCLOB` are described below. The options are described in the following table.

Returns the `CLOB` located at the address specified by the `XDBUriType` instance.

Syntax

```
MEMBER FUNCTION getClob()
    RETURN CLOB;
```

Returns the `CLOB` located at the address specified by the `XDBUriType` instance and the content type.

Syntax

```
MEMBER FUNCTION getClob(content OUT VARCHAR2)
    RETURN CLOB;
```

Table 311-19 XDBUriType Subtype GETCLOB Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.

XDBUriType Subtype GETCONTENTTYPE

This function returns the content type of the document pointed to by the URI. This function returns the content type as VARCHAR2.

Syntax

```
MEMBER FUNCTION getContentType()  
RETURN VARCHAR2;
```

XDBUriType Subtype GETEXTERNALURL

This function returns the URL, in escaped format, stored inside the XDBURITYPE instance.

Syntax

```
MEMBER FUNCTION getExternalUrl()  
RETURN varchar2;
```

XDBUriType Subtype GETURL

This function returns the URL, in non-escaped format, stored inside the XDBURITYPE instance.

Syntax

```
MEMBER FUNCTION getUrl()  
RETURN varchar2;
```

XDBUriType Subtype GETXML

This function returns the XMLType located at the address specified by the URL.

The subprograms of the URI Subtype XDBURITYPE member subprogram GETXML are described below. The options are described in the following table.

This function returns the XMLType located at the address specified by the URL.

Syntax

```
MEMBER FUNCTION getXML()  
RETURN XMLType;
```

This function returns the XMLType located at the address specified by the URL and the content type.

Syntax

```
MEMBER FUNCTION getXML(content OUT VARCHAR2)  
RETURN XMLType;
```

Table 311-20 XDBUriType Subtype GETXML Parameters

Parameter	IN / OUT	Description
content	(OUT)	Content type of the document to which URI is pointing.

XDBUriType subtype XDBURITYPE

This constructs a XDBURITYPE instance.

Syntax

```
CONSTRUCTOR FUNCTION XDBURITYPE(  
    url      IN   VARCHAR2,  
    flags    IN   RAW := NULL)  
RETURN self AS RESULT;
```

Table 311-21 XDBUriType subtype XDBURITYPE Parameters

Parameter	IN / OUT	Description
url	(IN)	The URL string containing a valid XDBUriType. The URL string is expected in escaped format. For example, non-URL characters are represented as the hexadecimal value for the UTF-8 encoding of those characters.
flags	(IN)	Possible values are: <ul style="list-style-type: none">1 - Expand all XInclude elements before returning the result contents. If any XInclude element cannot be successfully resolved according to the XInclude fallback semantics, then an error is raised.2 - Indicates that any errors during document retrieval should be suppressed3 - Both flag bits (1, 2) are enabled

Summary of URIFACTORY Package Subprograms

The `UriFactory` package contains factory methods that can be used to generate the appropriate instance of the URI types without having to hard code the implementation in the program.

The `UriFactory` package also provides the ability to register new subtypes of the `UriType` to handle various other protocols. For example, you can invent a new protocol `ecom://` and define a subtype of the `UriType` to handle that protocol and register it with `UriFactory`. After that any factory method would generate the new subtype instance if it sees the `ecom://` prefix.

Table 311-22 URIFACTORY Type Subprograms

Method	Description
GETURI	Returns the correct URL handler for the given URL string.
ESCAPEURI	Returns a URL in escaped format.
UNESCAPEURI	Returns a URL in unescaped format.
REGISTERURLHANDLER	Registers a particular type name for handling a particular URL.
UNREGISTERURLHANDLER	Unregisters a URL handler.

UriFactory Package GETURI

This factory method returns the correct URI handler for the given URI string.

It returns a subtype instance of the `UriType` that can handle the protocol. By default, it always creates an `XDBURITYPE` instance, if it cannot resolve the URL. A URL handler can be registered for a particular prefix using the [REGISTERURLHANDLER](#) function. If the prefix matches, [GETURI](#) would then use that subtype.

Syntax

```
FUNCTION getUri(  
    url IN Varchar2)  
RETURN UriType;
```

Table 311-23 UriFactory Package GETURI Parameters

Parameter	IN / OUT	Description
uri	(IN)	The URL string, in escaped format, containing a valid HTTP URL.

UriFactory Package ESCAPEURI

This function returns a URL in escaped format.

The subtype instances override this member function to provide additional semantics. For instance, the `HTTPURITYPE` does not store the prefix `http://` in the URL itself. When generating the external URL, it appends the prefix and generates it. For this reason, use the [GETEXTERNALURL](#) function or the [GETURI](#) function to get to the URL value instead of using the attribute present in the `UriType`.

Syntax

```
MEMBER FUNCTION escapeUri()  
RETURN varchar2;
```

Table 311-24 UriFactory Package ESCAPEURI Parameters

Parameter	IN / OUT	Description
url	(IN)	The URL string to be returned in escaped format.

UriFactory Package UNESCAPEURI

This function returns a URL in unescaped format.

This function is the reverse of the [ESCAPEURI](#) function. This function scans the string and converts any non-URL hexadecimal characters into the equivalent UTF-8 characters. Since the return type is a `VARCHAR2`, the characters would be converted into the equivalent characters as defined by the database character set.

Syntax

```
FUNCTION unescapeUri()  
RETURN varchar2;
```


Table 311-25 UriFactory Package UNESCAPEURI Parameters

Parameter	IN / OUT	Description
url	(IN)	The URL string to be returned in unescaped format.

UriFactory Package REGISTERURLHANDLER

This package registers a particular type name for handling a particular URL.

The type specified must be valid and must be a subtype of the `UriType` or one of its subtypes. It must also implement the `createUri` static member function. This function is called by the [GETURI](#) function to generate an instance of the type. The `stripprefix` parameter indicates that the prefix must be stripped off before calling this function.

Syntax

```
PROCEDURE registerUrlHandler(  
    prefix IN varchar2,  
    schemaName IN varchar2,  
    typename IN varchar2,  
    ignoreCase IN boolean := true,  
    stripprefix IN boolean := true);
```

Table 311-26 UriFactory Package REGISTERURLHANDLER Parameters

Parameter	IN / OUT	Description
prefix	(IN)	The prefix to handle; for example, <code>http://</code> .
schemaName	(IN)	Name of the schema where the type resides; case sensitive.
typename	(IN)	The name of the type to handle the URL; case sensitive.
ignoreCase	(IN)	Ignore case when matching prefixes.
stripprefix	(IN)	Strip prefix before generating the instance of the type.

UriFactory Package UNREGISTERURLHANDLER

This procedure unregisters a URL handler. This only unregisters user registered handler prefixes and not predefined system prefixes such as `http://`.

Syntax

```
PROCEDURE unregisterUrlHandler(  
    prefix IN VARCHAR2);
```

Table 311-27 UriFactory Package UNREGISTERURLHANDLER Parameters

Parameter	IN / OUT	Description
prefix	(IN)	The prefix to be unregistered.