

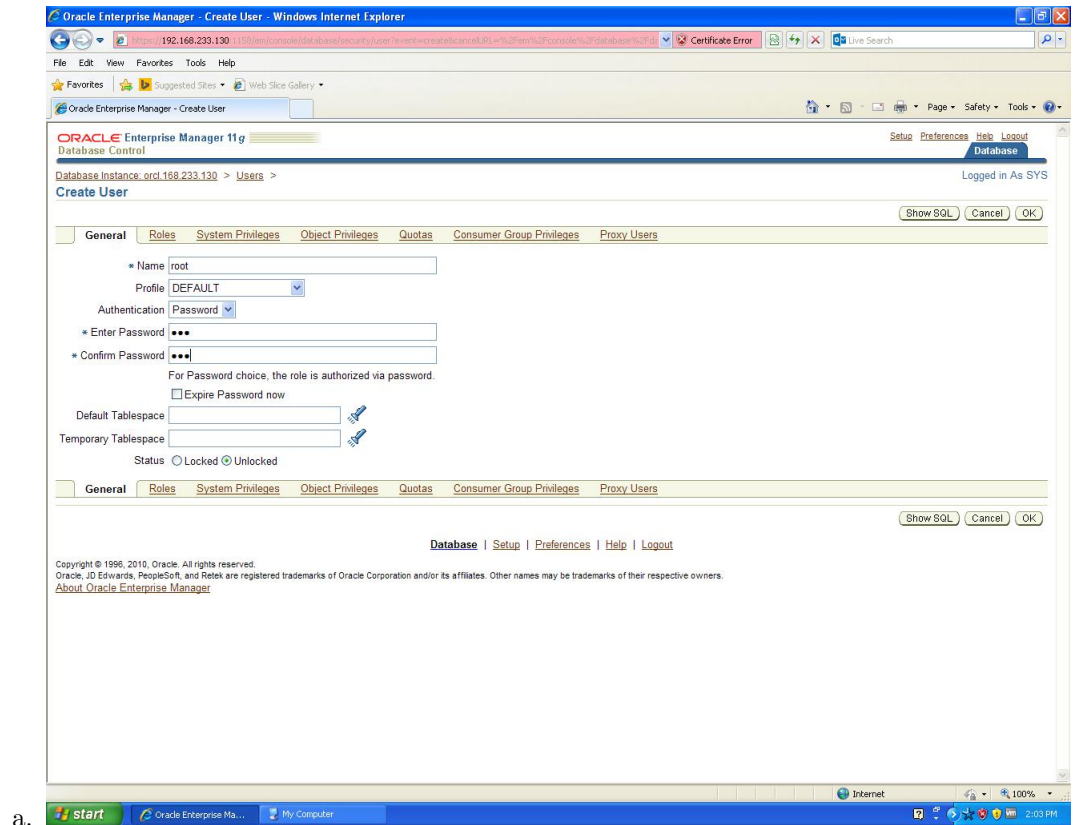
In the name of God Database Lab Spring 2016

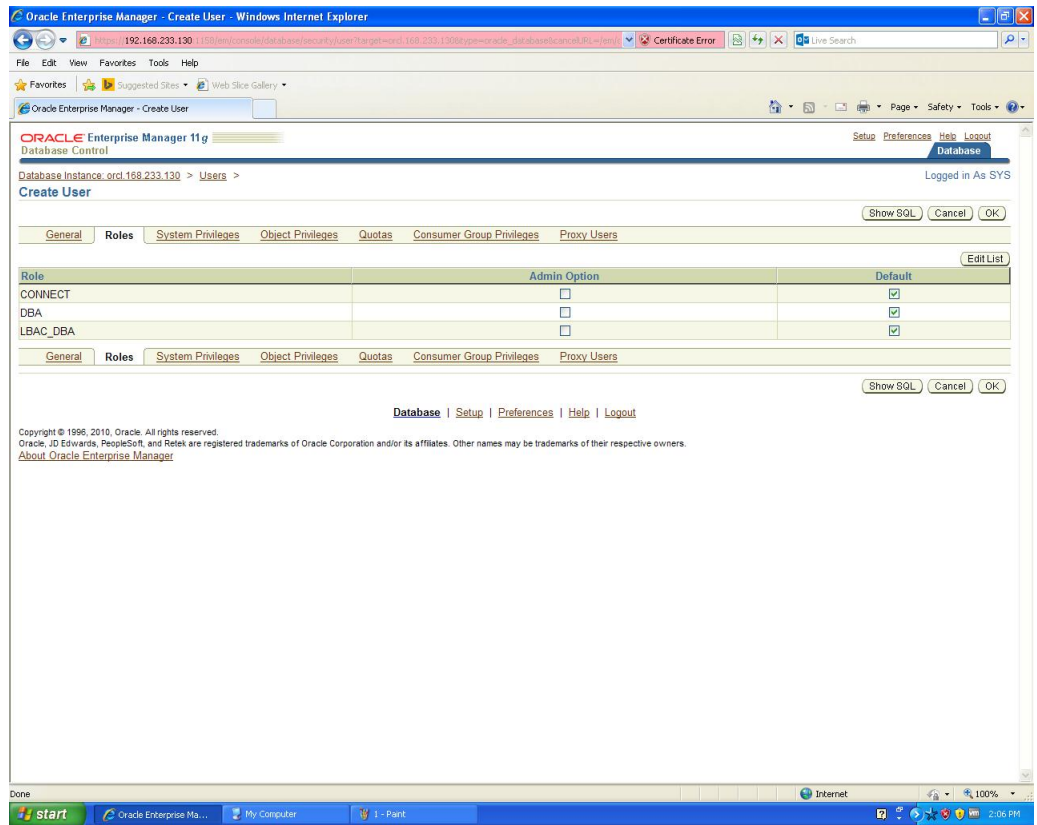
Parham ALVANI

May 4, 2016

Date Performed: April 6, 2016
Partners: Iman Tabrizian

1 Screen Shots





b.



Oracle Enterprise Manager - Table View - Windows Internet Explorer

192.168.233.130 | 150.../console/tables/view?tableSchema=ROOT&tableName=DEPARTMENT&viewName=deptViewURL.jsp Certificate Error Live Search

File Edit View Favorites Tools Help

Oracle Enterprise Manager - Table View

ORACLE Enterprise Manager 11g Database Control Help Logout Database

Database Instance: orcl.168.233.130 > Tables > View Table: ROOT.DEPARTMENT Logged in As ROOT

Actions Create Like Go Edit OK

General

Name DEPARTMENT
Schema ROOT
Tablespace USERS
Organization Standard (Heap Organized)

Columns

	Name	Data Type	Size	Scale	Not NULL	Default Value	Encrypted
?	DEP_ID	NUMBER	10		<input checked="" type="checkbox"/>		<input type="checkbox"/>
	DEP_NAME	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>
	DEP_DATE	DATE			<input type="checkbox"/>		<input type="checkbox"/>

Indicates a Primary Key column
Indicates a Unique Key column
Indicates a SecureFile LOB column

Constraints

Name	Type	Table	Columns	Disabled	Deferrable	Initially	Deferred	Validate	RELY	Check	Condition	Referenced Schema	Referenced Table	Referenced Table Columns	Cascade on Delete
SYS_C0011072	PRIMARY	DEP_ID		NO	NO	NO		YES	NO						NO

Indexes

Number of Indexes: 1

Schema	Index	Indexed Columns	Column Position
ROOT	SYS_C0011072	DEP_ID	1

Storage

Tablespace

Name USERS
Extent Management Local
Segment Management Automatic
Allocation Type SYSTEM
Logging Yes

Space Usage
Free Space (PCTFREE)(%) 10

Done

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d.

Oracle Enterprise Manager - Table View - Windows Internet Explorer

192.168.233.130 | 150... | Certificate Error | Live Search

File Edit View Favorites Tools Help

Oracle Enterprise Manager - Table View

ORACLE Enterprise Manager 11g Database Control

Database Instance: orcl.168.233.130 > Tables > View Table: ROOT.MEMBER

Actions: Create Like Go Edit OK

General

Name: MEMBER
Schema: ROOT
Tablespace: USERS
Organization: Standard (Heap Organized)

Columns

Name	Data Type	Size	Scale	Not NULL	Default Value	Encrypted
DEP_ID	NUMBER	10		<input checked="" type="checkbox"/>		<input type="checkbox"/>
T_ID	NUMBER	10		<input checked="" type="checkbox"/>		<input type="checkbox"/>
SALARY	NUMBER	10		<input type="checkbox"/>		<input type="checkbox"/>
PASSWORD	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>

Indicates a Primary Key column
Indicates a Unique Key column
Indicates a SecureFile LOB column

Constraints

Name	Type	Table	Columns	Disabled	Deferrable	Initially	Deferred	Validate	RELY	Check	Condition	Referenced Schema	Referenced Table	Referenced Table Columns	Cascade on Delete
SYS_C0011071	PRIMARY	DEP_ID, T_ID	NO	NO	NO			YES	NO			ROOT	DEPARTMENT	DEP_ID	NO
SYS_C0011075	FOREIGN	DEP_ID	NO	NO	NO			YES	NO			ROOT	TEACHER	T_ID	NO
SYS_C0011076	FOREIGN	T_ID	NO	NO	NO			YES	NO			ROOT	TEACHER	T_ID	NO

Indexes

Number of Indexes: 1

Schema	Index	Indexed Columns	Column Position
ROOT	SYS_C0011071	DEP_ID	1
		T_ID	2

Storage

Tablespace

Name: USERS
Extent Management: Local
Segment Management: Automatic

e.

Oracle Enterprise Manager - Table View - Windows Internet Explorer

192.168.233.130 | 150... | Certificate Error

Oracle Enterprise Manager 11g

Database Control

Database Instance: orcl.168.233.130 > Tables > View Table: ROOT.PROJECT

Actions: Create Like Go Edit OK

General

Name: PROJECT
Schema: ROOT
Tablespace: USERS
Organization: Standard (Heap Organized)

Columns

Name	Data Type	Size	Scale	Not NULL	Default Value	Encrypted
C_ID	NUMBER	10		<input checked="" type="checkbox"/>		<input type="checkbox"/>
PROJ_ID	NUMBER	10		<input checked="" type="checkbox"/>		<input type="checkbox"/>
DEF_PROJ	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>
MEMBER	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>
PROJ_DEADLINE	DATE			<input type="checkbox"/>		<input type="checkbox"/>

? Indicates a Primary Key column
 ✓ Indicates a Unique Key column
 S Indicates a SecureFile LOB column

Constraints

Name	Type	Table	Columns	Disabled	Deferrable	Initially	Deferred	Validate	RELY	Check	Condition	Referenced Schema	Referenced Table	Referenced Table Columns	Cascade on Delete
SYS_C0011063	PRIMARY	C_ID, PROJ_ID	NO	NO	NO	NO	YES	NO							NO
SYS_C0011064	FOREIGN	C_ID	NO	NO	NO	NO	YES	NO				ROOT	COURSE	C_ID	NO

Indexes

Number of Indexes: 1

Schema	Index	Indexed Columns	Column Position
ROOT	SYS_C0011063	C_ID	1
		PROJ_ID	2

Storage

Tablespace

Name: USERS
Extent Management: Local
Segment Management: Automatic

Done

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Oracle Enterprise Manager - Table View - Windows Internet Explorer

192.168.233.130 | 150.../console/tables/view?tableSchema=ROOT&tableName=PUBLICATION... Certificate Error Live Search

File Edit View Favorites Tools Help

Oracle Enterprise Manager - Table View

ORACLE Enterprise Manager 11g Database Control Help Logout Database

Database Instance: orcl.168.233.130 > Tables > View Table: ROOT.PUBLICATION Logged in As ROOT

Actions Create Like Go Edit OK

General

Name PUBLICATION
Schema ROOT
Tablespace USERS
Organization Standard (Heap Organized)

Columns

Name	Data Type	Size	Scale	Not NULL	Default Value	Encrypted
T_ID	NUMBER	10		<input type="checkbox"/>		<input type="checkbox"/>
BOOK_NAME	VARCHAR2	255		<input checked="" type="checkbox"/>		<input type="checkbox"/>
PUBLISH_DATE	DATE			<input type="checkbox"/>		<input type="checkbox"/>

Indicates a Primary Key column
Indicates a Unique Key column
Indicates a SecureFile LOB column

Constraints

Name	Type	Table Columns	Disabled	Deferrable	Initially	Deferred	Validate	RELY	Check Condition	Referenced Schema	Referenced Table	Referenced Table Columns	Cascade on Delete
SYS_C0011073	PRIMARY	BOOK_NAME	NO	NO	NO	NO	YES	NO					NO
SYS_C0011077	FOREIGN	T_ID	NO	NO	NO	NO	YES	NO		ROOT	TEACHER	T_ID	NO

Indexes

Number of Indexes: 1

Schema	Index	Indexed Columns	Column Position
ROOT	SYS_C0011073	BOOK_NAME	1

Storage

Tablespace

Name USERS
Extent Management Local
Segment Management Automatic
Allocation Type SYSTEM
Logging Yes

Space Usage

Done

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gg.

The screenshot shows the Oracle Enterprise Manager 11g Database Control interface. The browser address bar indicates the URL: <https://192.168.233.130:1153/em/console/database/schema/table?name=ROOT.REGISTER&view=web&id=ca0a0d30-0000-0000-0000-000000000000>. The page title is "Oracle Enterprise Manager 11g Database Control". The breadcrumb navigation shows "Database Instance: orcl 168.233.130 > Tables > View Table: ROOT.REGISTER". The user is logged in as "As ROOT".

The "General" section displays the following table metadata:

Property	Value
Name	REGISTER
Schema	ROOT
Tablespace	USERS
Organization	Standard (Heap Organized)

The "Columns" section displays the following table:

Columns	Name	Data Type	Size	Scale	Not NULL	Default Value	Encrypted
?	S_ID	NUMBER	10		<input checked="" type="checkbox"/>		<input type="checkbox"/>
?	C_ID	NUMBER	10		<input checked="" type="checkbox"/>		<input type="checkbox"/>
	GRADE	NUMBER	2		<input type="checkbox"/>		<input type="checkbox"/>

Legend:

- ? Indicates a Primary Key column
- ✓ Indicates a Unique Key column
- 🔒 Indicates a SecureFile LOB column

The "Constraints" section displays the following table:

Name	Type	Table Columns	Disabled	Deferrable	Initially Deferred	Validate	RELY	Check Condition	Referenced Schema	Referenced Table	Referenced Table Columns	Cascade on Delete
SYS_C0011059	PRIMARY	S_ID, C_ID	NO	NO	NO	YES	NO					
SYS_C0011060	FOREIGN	S_ID	NO	NO	NO	YES	NO		ROOT	STUDENT	S_ID	NO
SYS_C0011062	FOREIGN	C_ID	NO	NO	NO	YES	NO		ROOT	COURSE	C_ID	NO

The "Indexes" section displays the following table:

Schema	Index	Indexed Columns	Column Position
ROOT	SYS_C0011059	S_ID	1
		C_ID	2

The "Storage" section displays the following table:

Property	Value
Tablespace	USERS
Extent Management	Local
Segment Management	Automatic
Allocation Type	SYSTEM
Logging	Yes

Oracle Enterprise Manager - Table View - Windows Internet Explorer

192.168.233.130 | 150 | Oracle Enterprise Manager - Table View - ROOT.TSTUDENT

File Edit View Favorites Tools Help

Oracle Enterprise Manager - Table View

ORACLE Enterprise Manager 11g

Database Control

Database Instance: orcl.168.233.130 > Tables >

View Table: ROOT.TSTUDENT

Actions: Create Like Go Edit OK

General

Name: STUDENT
Schema: ROOT
Tablespace: USERS
Organization: Standard (Heap Organized)

Columns

Name	Data Type	Size	Scale	Not NULL	Default Value	Encrypted
S_ID	NUMBER	10		<input checked="" type="checkbox"/>		<input type="checkbox"/>
S_NAME	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>
S_FNAME	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>
S_TEL	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>
S_ADDRESS	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>
S_DEP	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>

Indicates a Primary Key column
Indicates a Unique Key column
Indicates a SecureFile LOB column

Constraints

Name	Type	Table	Columns	Disabled	Deferrable	Initially	Deferred	Validate	RELY	Check	Condition	Referenced	Schema	Referenced	Table	Referenced	Table	Columns	Cascade	on Delete
SYS_C0011058	PRIMARY	S_ID		NO	NO	NO		YES	NO											NO

Indexes

Number of Indexes: 1

Schema	Index	Indexed Columns	Column Position
ROOT	SYS_C0011058	S_ID	1

Storage

Tablespace

Name: USERS
Extent Management: Local
Segment Management: Automatic
Allocation Tuning: SYSTEM

Done

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Oracle Enterprise Manager - Table View - Windows Internet Explorer

192.168.233.130 | 150... | Certificate Error | Live Search

File Edit View Favorites Tools Help

Oracle Enterprise Manager - Table View

ORACLE Enterprise Manager 11g Database Control

Database Instance: orcl.168.233.130 > Tables > View Table: ROOT.TEACHER

Logged in As ROOT

Actions: Create Like Go Edit OK

General

Name: TEACHER
Schema: ROOT
Tablespace: USERS
Organization: Standard (Heap Organized)

Columns

Name	Data Type	Size	Scale	Not NULL	Default Value	Encrypted
T_ID	NUMBER	10		<input checked="" type="checkbox"/>		<input type="checkbox"/>
T_NAME	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>
T_FNAME	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>
T_TELL	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>
T_ADDRESS	VARCHAR2	255		<input type="checkbox"/>		<input type="checkbox"/>

? Indicates a Primary Key column
 ✓ Indicates a Unique Key column
 S Indicates a SecureFile LOB column

Constraints

Name	Type	Table	Columns	Disabled	Deferrable	Initially	Deferred	Validate	RELY	Check	Condition	Referenced Schema	Referenced Table	Referenced Columns	Cascade on Delete
SYS_C0011070	PRIMARY	T_ID		NO	NO	NO	NO	YES	NO						NO

Indexes

Number of Indexes: 1

Schema	Index	Indexed Columns	Column Position
ROOT	SYS_C0011070	T_ID	1

Storage

Tablespace

Name: USERS
 Extent Management: Local
 Segment Management: Automatic
 Allocation Type: SYSTEM
 Logging: Yes

Done

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Oracle Enterprise Manager - View Role: EDUCATION_MANAGER - Windows Internet Explorer

192.168.233.130 | 150.../oracle/11g/central/ohs/secure-proxy/manager/EDUCATION_MANAGER/enterprise/central/PL/Java/comp... Certificate Error Live Search

File Edit View Favorites Tools Help

Favorites Suggested Sites Web Slice Gallery

Oracle Enterprise Manager (Oracle Enterprise Manag... X

Page Safety Tools

ORACLE Enterprise Manager 11g Database Control Help Logout Database

Database Instance: ord.168.233.130 > Roles > View Role: EDUCATION_MANAGER Logged in As ROOT

Actions Create Like Go Edit Return

General

Name: EDUCATION_MANAGER

Authentication: None

Roles

Role Admin Option

No items found

System Privileges

System Privilege Admin Option

No items found

Object Privileges

Object Privilege	Schema	Object
DELETE	ROOT	EDUCATIONAL_MANAGER
INSERT	ROOT	EDUCATIONAL_MANAGER
SELECT	ROOT	EDUCATIONAL_MANAGER
UPDATE	ROOT	EDUCATIONAL_MANAGER

Consumer Group Privileges

Consumer Group

No items found

Actions Create Like Go Edit Return

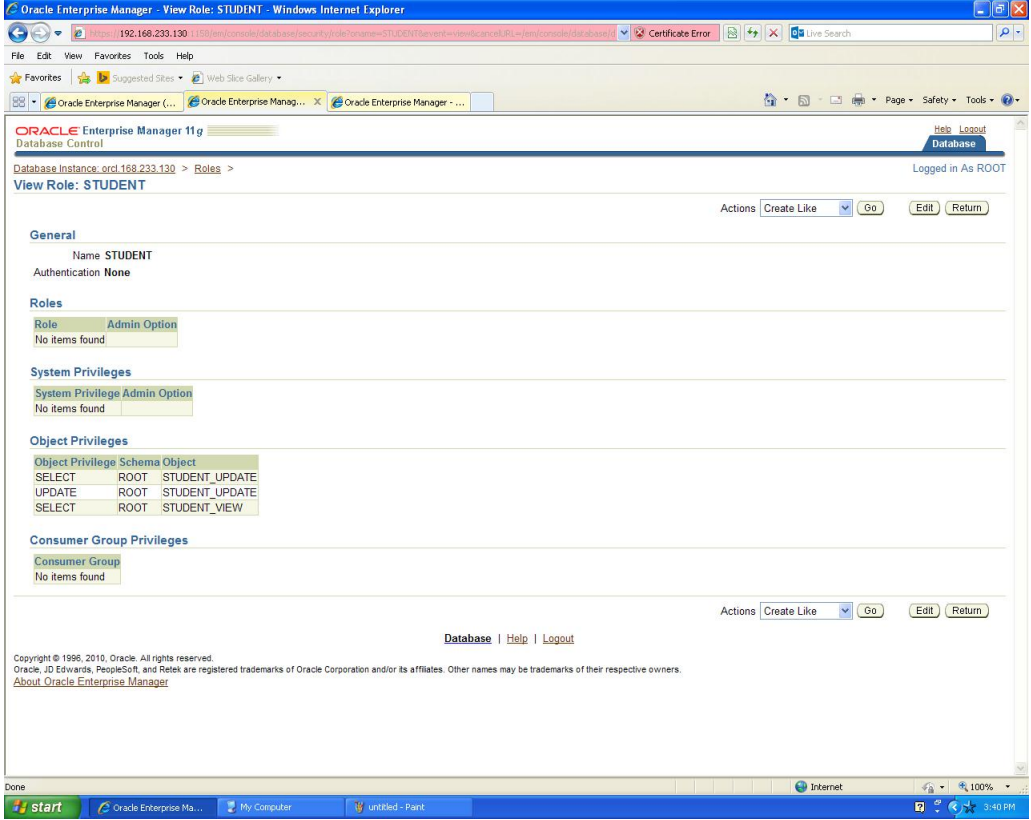
Database | Help | Logout

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[About Oracle Enterprise Manager](#)

Done

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1. 

The screenshot shows the Oracle Enterprise Manager 11g Database Control interface in a Windows Internet Explorer browser. The address bar shows the URL <http://192.168.233.130:1521/console/ords/ordservlet?oid=/oracle/enterprise11g/console/database/role>. The page title is "Oracle Enterprise Manager 11g Database Control". The breadcrumb navigation shows "Database Instance: ord.168.233.130 > Roles > View Role: STUDENT". The user is logged in as "ROOT".

The main content area displays the "View Role: STUDENT" page with the following sections:

- General**
 - Name: STUDENT
 - Authentication: None
- Roles**
 - Role: Admin Option
 - No items found
- System Privileges**
 - System Privilege: Admin Option
 - No items found
- Object Privileges**

Object Privilege	Schema	Object
SELECT	ROOT	STUDENT_UPDATE
UPDATE	ROOT	STUDENT_UPDATE
SELECT	ROOT	STUDENT_VIEW
- Consumer Group Privileges**
 - Consumer Group
 - No items found

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