

## ITU Resolutions Web Project

### Supported Operating Systems



**Database Search Engine**

**Installer Guide**

*Developed by  
TRA - Spectrum and International Affairs*

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**Version 1.0**

## Contents

<b>1.</b>	<b>Introduction.....</b>	<b>3</b>
<b>2.</b>	<b>Technology Selected: .....</b>	<b>3</b>
<b>3.</b>	<b>Dynamic Pages Extensions .....</b>	<b>3</b>
<b>4.</b>	<b>Recommended Web Server technologies Versions:.....</b>	<b>3</b>
<b>5.</b>	<b>Hardware and Operating System: .....</b>	<b>4</b>
<b>6.</b>	<b>Installer for Different Operating Systems:.....</b>	<b>5</b>
6.1.1	Windows Family{Installation and Uninstallation}.....	5
6.1.2	Linux Family – Redhat& Fedora{Installation and Uninstallation} .....	5
6.1.3	Mac OS Version{Installation and Uninstallation}.....	5
<b>7.</b>	<b>Installation: .....</b>	<b>23</b>
7.1.1	Copying the ITU Resolution web project dynamic web pages.....	23
7.1.2	RUN the SQL Scriptto generate the ITU Resolution Database .....	23
7.1.3	Add the credential into the Web Connection PHP page .....	24
<b>8.</b>	<b>About Telecommunication Regulatory Authority [TRA] - UAE: .....</b>	<b>25</b>
<b>9.</b>	<b>Contact details:.....</b>	<b>25</b>

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## 1. Introduction

The ITU Resolution Database Search Engine is Dynamic Website; which facilitate the paperless work environment at the ITU which is in line with the strategic objectives of International Telecommunications Union. Moreover it will also assist in cross referencing Resolutions [ITU-R, ITU-T, ITU-D, PP and Council]

## 2. Technology Selected:

We Selected the Technology for the Dynamic Web pages to develop those are as follows **PHP**, **Apache http** Web Server and **MySQL database**

## 3. Dynamic Pages Extensions

The Dynamic Web Pages are using the following extensions the web server should support the following

1. PHP
2. XML
3. HTML
4. JS
5. CSS
6. MNO
7. Lbi

## 4. Recommended Web Server technologies Versions:

We Recommend the Web Server Technologies Version to work at its best functions without any problem and those are tested, are the following:

S.No	Software	Version	Environment Settings
1.	PHP	5.2.9 [Tested]	PHP setting for <b>file_uploads</b> should be <b>ON</b> [Else from <b>Admin Upload will not work</b> ]  PHP setting for <b>upload_max_filesize</b> must be higher then 3MB
2.	Apache HTTP Server	2.0.58 [Tested]	
3.	MySQL	5.5.8 [Tested]	

## Hardware:

### 5. Hardware and Operating System:

The hardware and Operating system are as follows:

Hardware	RAM	Operating System	Folder Space of Web Folder
Processor Minimum 2.0GHz or Higher  Higher Hardware Specification and Multiple processor, result faster performance	Minimum <b>4GB RAM</b>	Can Run on <ul style="list-style-type: none"><li>• <b>Linux</b></li><li>• <b>Fedora</b></li><li>• <b>Windows</b></li></ul> any Version  [depend on Web hosted server settings]	Current <b>Folder</b> Size for the ITU Resolution Web Project <b>is 40MB</b> <ul style="list-style-type: none"><li>• Including Web pages / attachment</li><li>• The attachments are uploading on file system level</li><li>• Size of the folder will increase depending on uploading of attachments</li><li>• Attachments of the website link may not work, if they are not kept on the right location on file system</li></ul>

## Installers:

### 6. Installer for Different Operating Systems:

The ITU Resolution Web Project, Installer [to coping the project] support to multiple Operating Systems.

Those are as follows

- 6.1.1 **Windows Family**{Installation and Uninstallation}
- 6.1.2 **Linux Family – Redhat& Fedora**{Installation and Uninstallation}
- 6.1.3 **Mac OS Version**{Installation and Uninstallation}

All the below **Installer** will guide how to copy the ITU Resolution **Project includes readme, User Manual** and Database Schema to guide further.

WE ASSUME the above point no. 4 {Web Server} is already installed and configure according to the different platforms [different operating systems]

**WARNING:**Note, uninstall will remove any changes or any added attachments to ITU Resolution folder in the following path itures or itures/upload/Conference\_names

#### 6.1.1 Windows Family

To Open from CD or Copy the ITU Resolution Database Web Project on the Windows Platform follow the steps

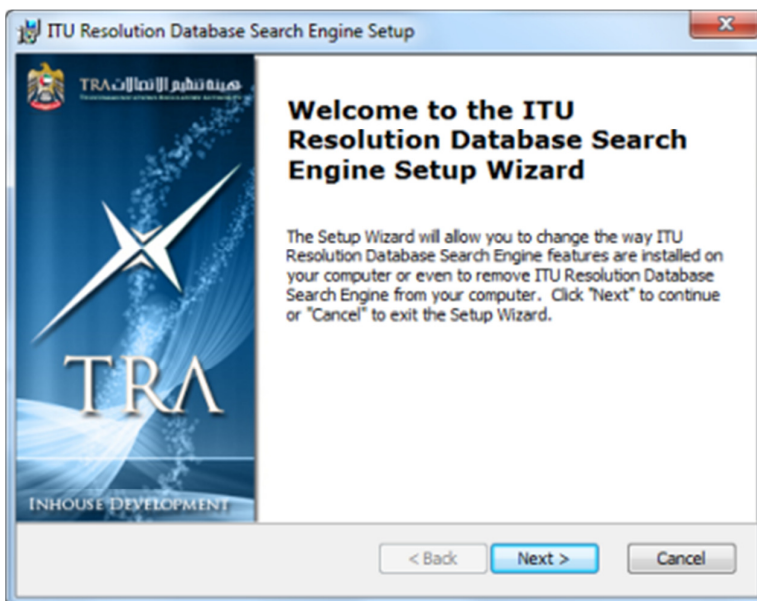
##### Installation:

1. Run the Setup file **ITU-Resolution-DB.exe** [if running in Windows Vista, 7 or Server 2008] then Run As Administrator



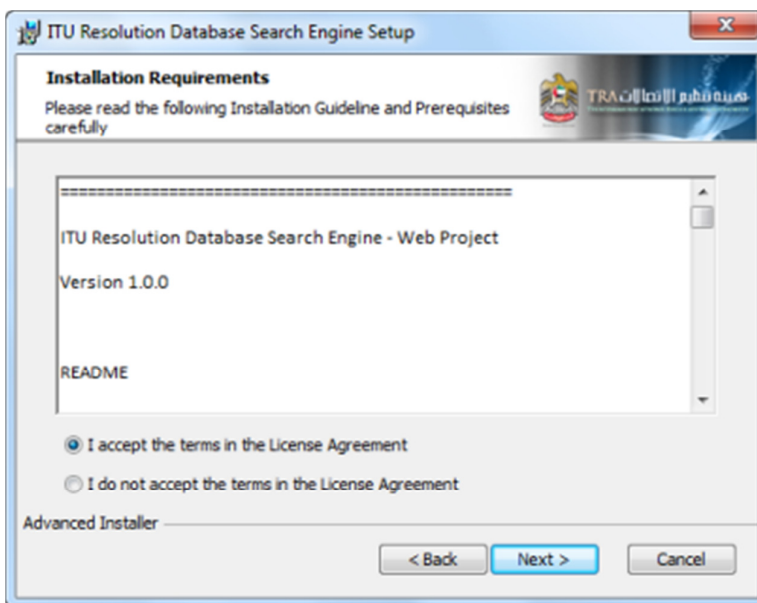
[Image1]

2. **Double Click** on the Executable file [exe file]



[Image2]

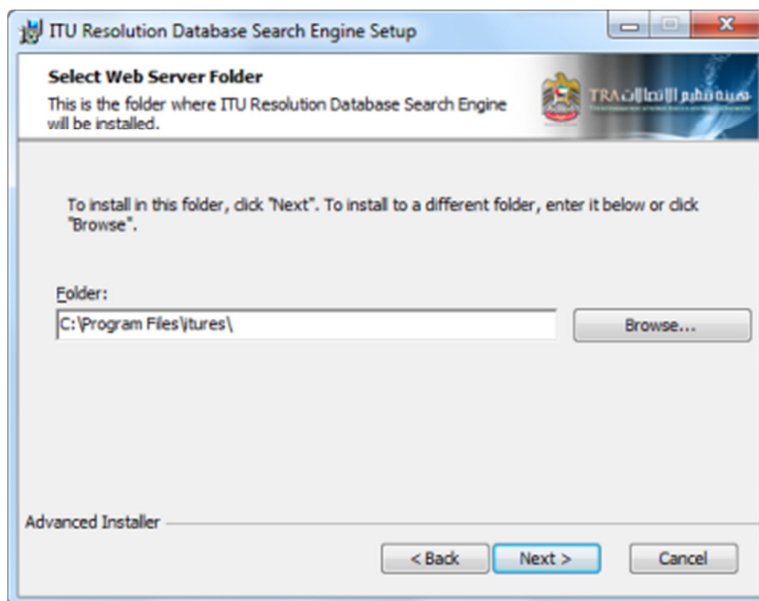
3. Click **Next**



[Image3]

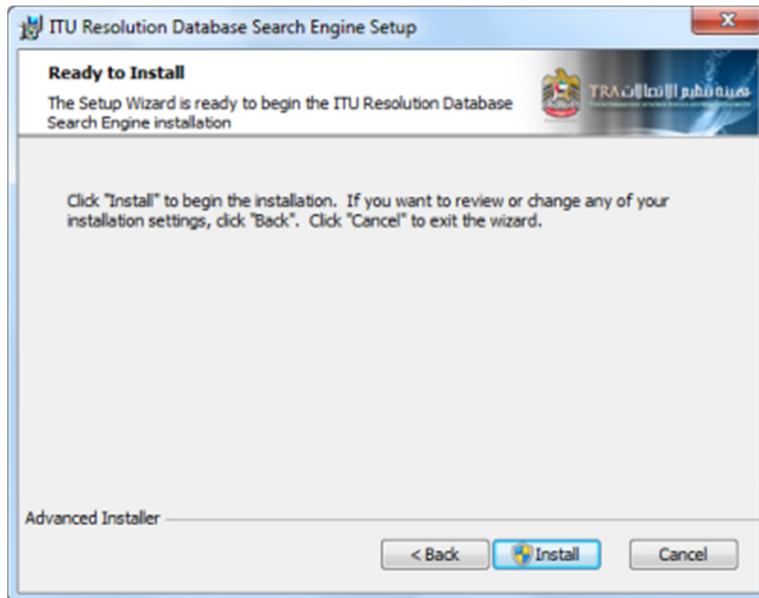
4. Click on **I accept**

5. Click **Next**



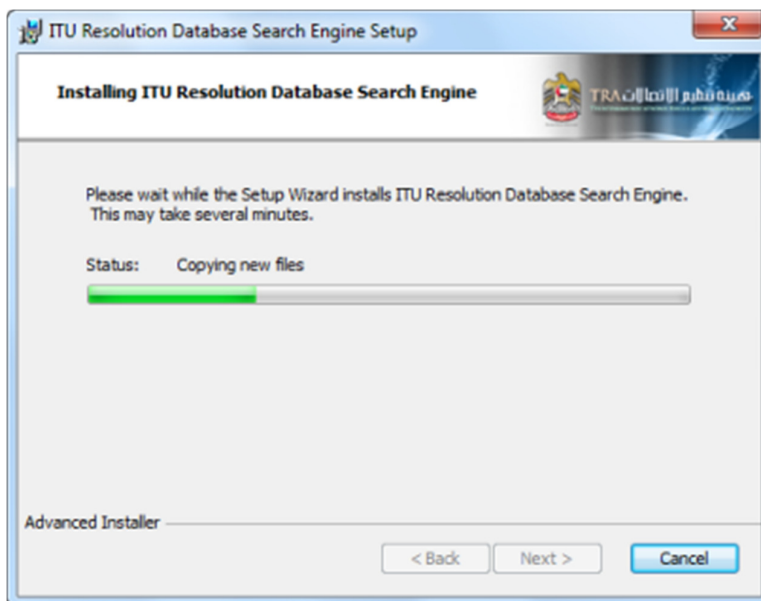
[Image4]

6. Click on **Browse** and Select the your Web Server {Dynamic Root Folder}
7. Click on **Next**

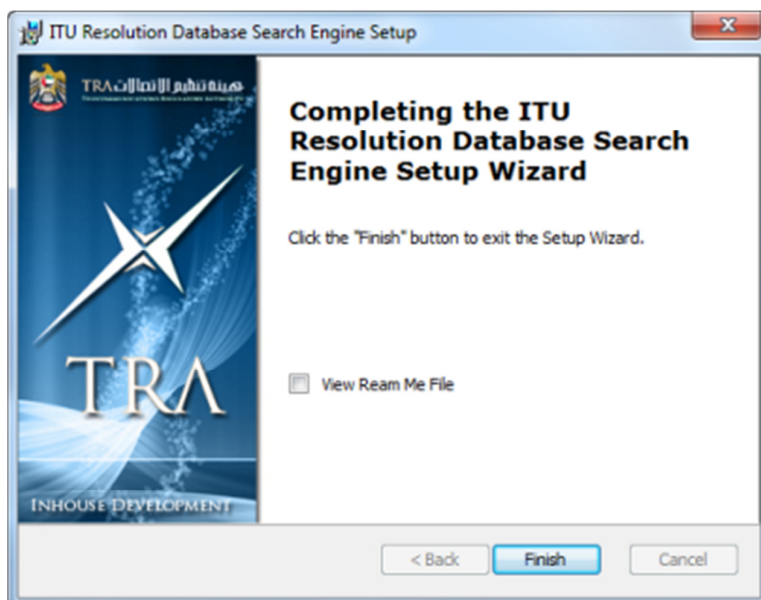


[Image5]

8. Ready for Copying the ITU resolution database Dynamic Pages including others
9. Click **Install**



[Image6]



[Image7]

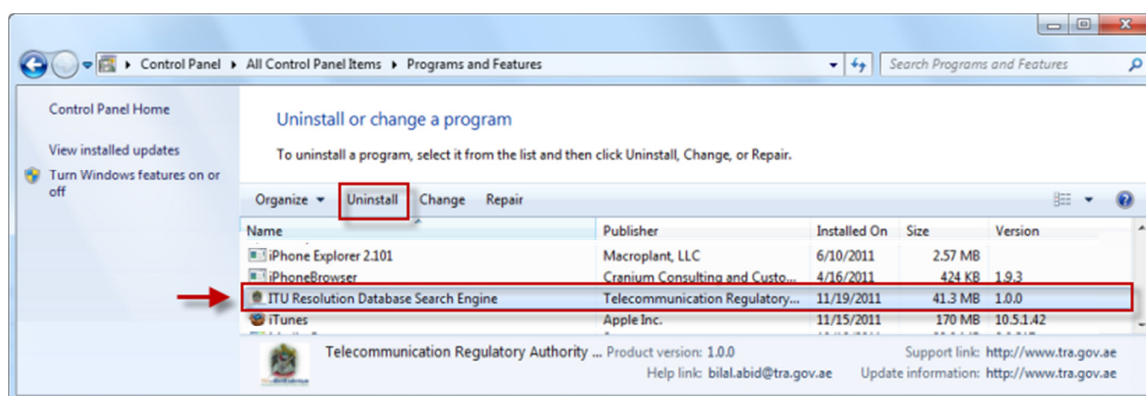
10. Click on Readme file
11. Click Finish
12. Go to the installed Folder, view the following files[*all dynamic pages, Database Script, ITU\_Res\_UserGuide and Readme file*]

- itures
- itures\_database\_script
- ITU\_Res\_User\_Guide.pdf
- ItuRes\_ReadMe.rtf



## Uninstallation:

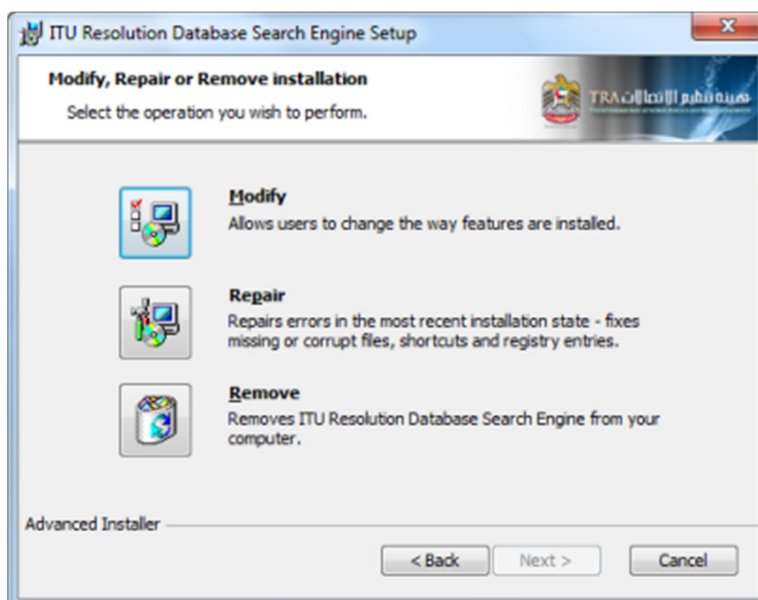
1. To Uninstall from the same location
2. Go to the Control Panel > Click Add and Remove program [xp] in Program and Features [Windows 7 or Windows Server 2008]



[Image8]

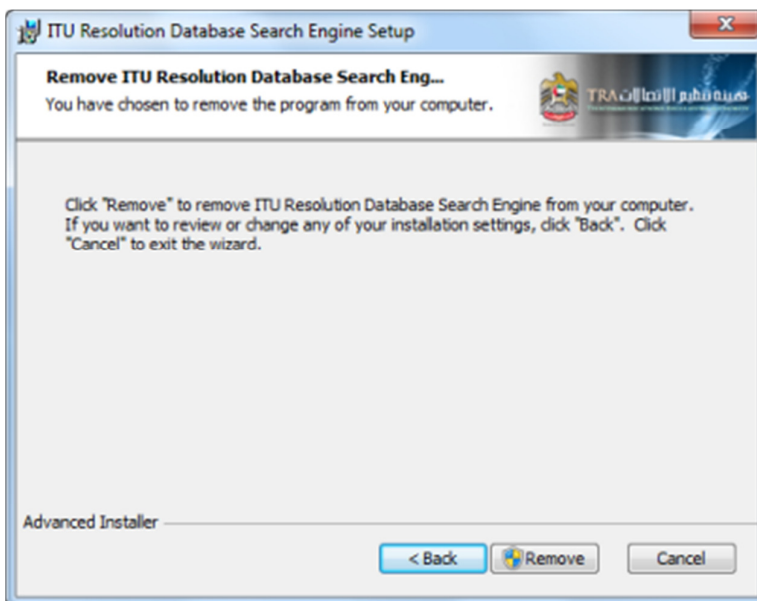
OR

3. Double click on file **ITU-Resolution-DB.exe** [if running in Windows Vista, 7 or Server 2008] then Run As Administrator
4. Click on Next as shown image2



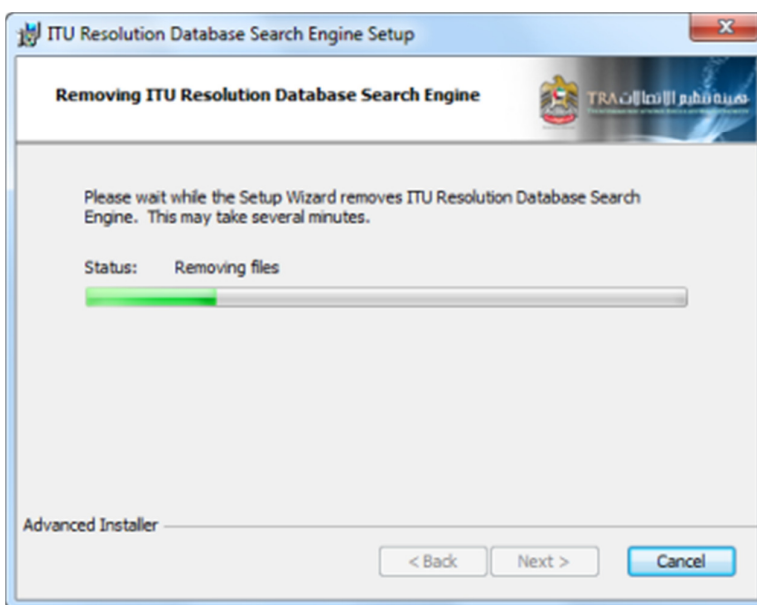
[Image9]

5. Click on the any three options, assume I click on **Remove**



[Image10]

6. Click on the **REMOVE**



[Image11]

7. Click on the Finish as shown in image7

## 6.1.2 Linux Family {Redhat}

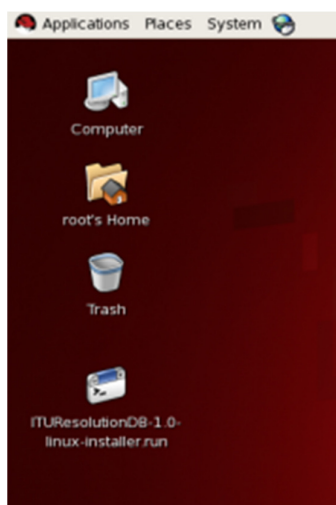
To Open from CD or Copy the ITU Resolution Database Web Project on the Windows Platform follow the steps



Linux Redhat

### Installation:

1. Run the by double clicking on Setup file **ITUResolutionDB-1.0-linux-installer.run** [in Linux Redhat] login as **root** user

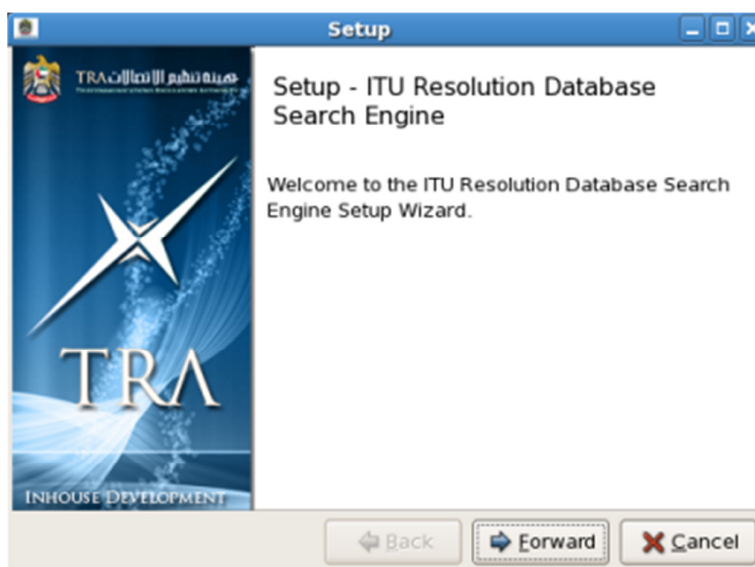


[Image12]



[Image13]

2. **Splash** Screen will run



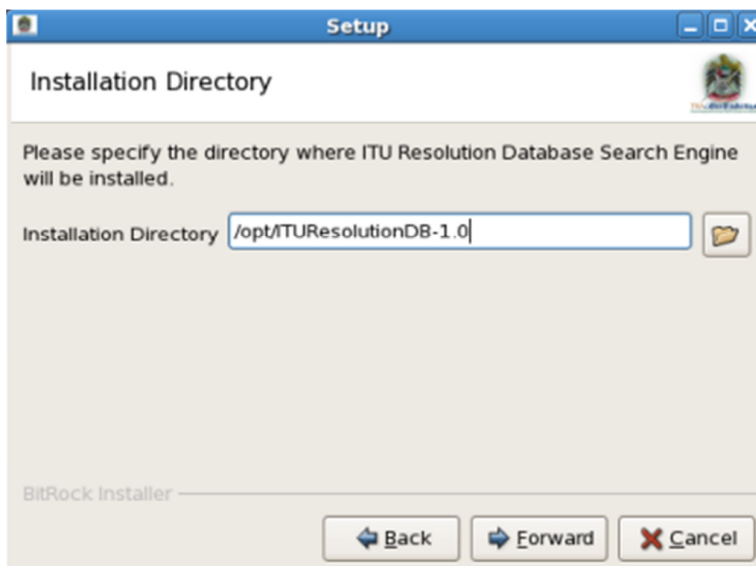
[Image14]

3. Click on **Forward**



[Image15]

4. Click on **I accept** and Click on **Forward**



[Image16]

5. Select the path of the Web Server {dynamic pages folder} is installed click on **Forward**

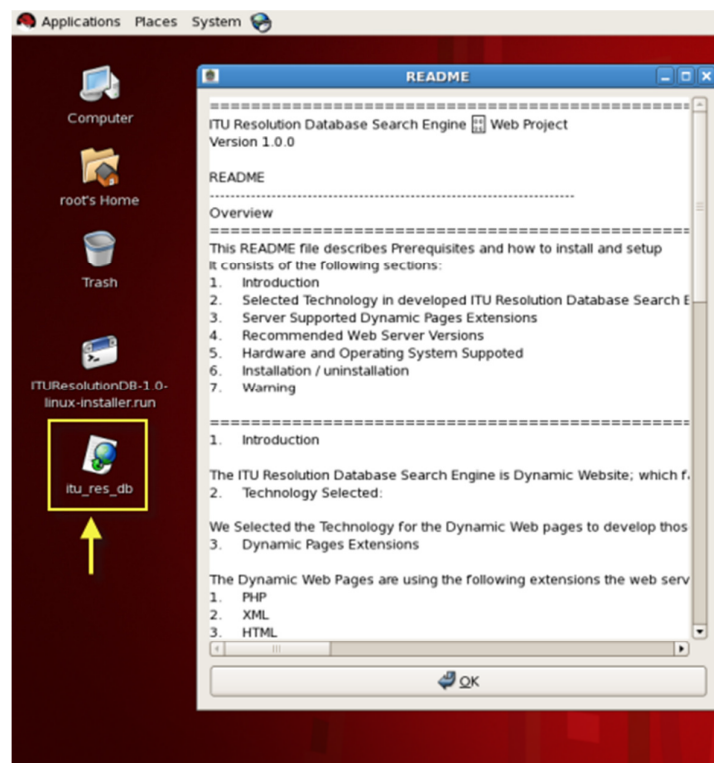


[Image17]

6. It's ready for Copying the files, Click on **Forward**

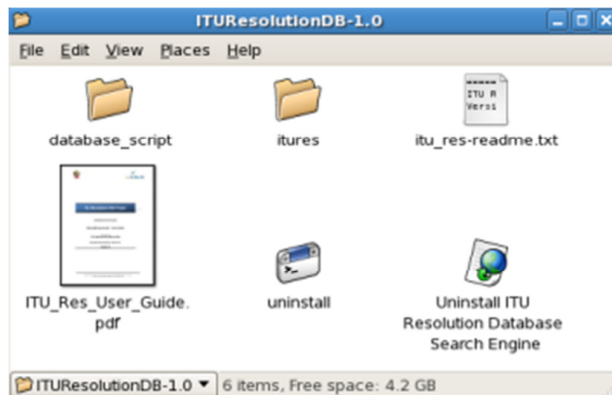


[Image18]



[Image19]

7. Click on **Finish**, it will open the Readme file and one **shortcut** will be added on the desktop as shown in image19
8. **Double click** on the Shortcut it will open the Folder which contain the ITU Resolution Web Files

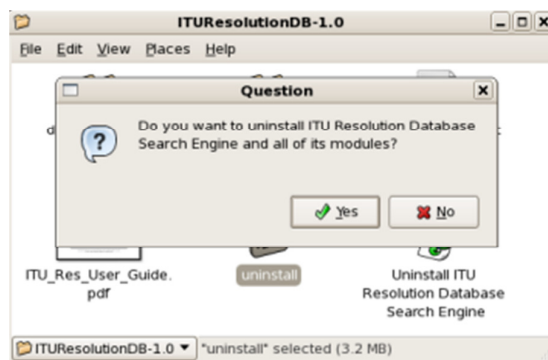


[Image20]

9. The Folder contains view the following files *[all dynamic pages, Database Script, ITU\_Res\_UserGuide, Readme file and uninstall files]*

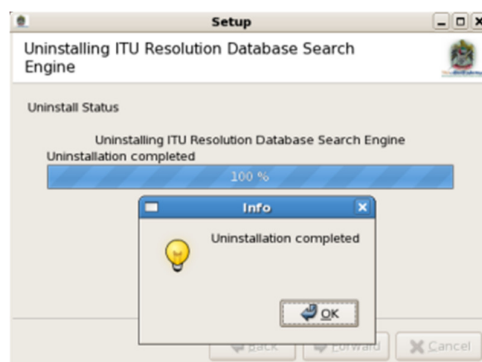
#### Uninstallation:

1. Read the WARNING on point no. 6 before uninstalling
2. To Uninstall **Double click** on the Linux Redhat desktop shortcut **itu\_res\_dbas** shown in image20
3. Folder will open which contain the ITU Resolution Web Project
4. **Doubleclick** on the **uninstall** file



[Image21]

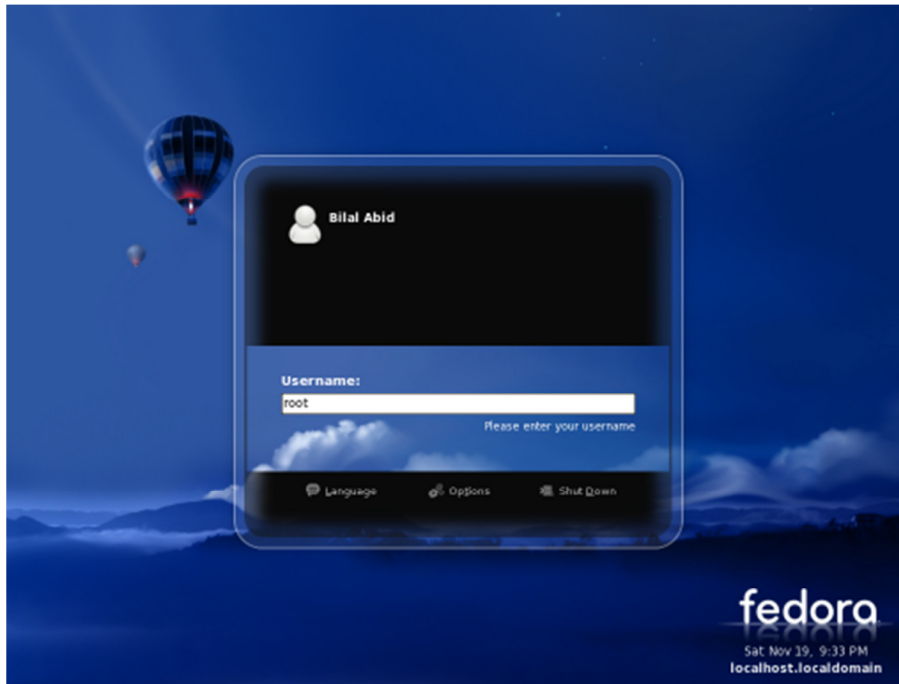
10. Click on **Yes** and then **OK**, it will remove all the files with shortcut



[Image22]

## 6.1.2 Linux Family {Fedora}

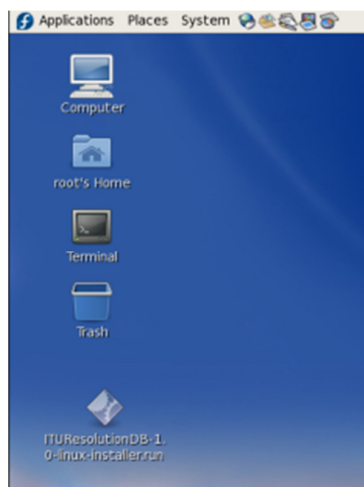
To Open from CD or Copy the ITU Resolution Database Web Project on the Windows Platform follow the steps



Linux Fedora

### Installation:

1. Run the by double clicking on Setup file **ITUResolutionDB-1.0-linux-installer.run** [in Linux Redhat] login as **root** user



[Image23]

To Install and Uninstall for Fedora OS follow from image12 to image22



### 6.1.3 Mac OS

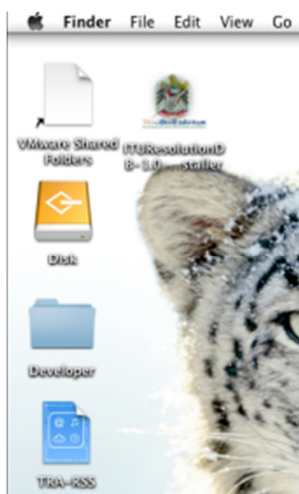
To Open from CD or Copy the ITU Resolution Database Web Project on the Windows Platform follow the steps



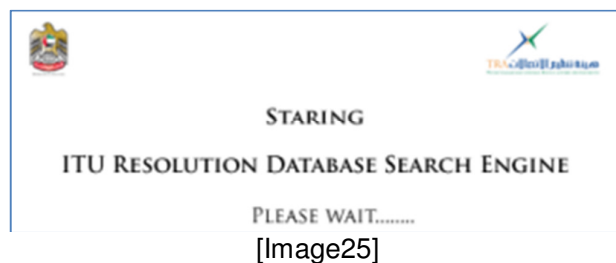
Mac OS

#### Installation:

1. Run the by double clicking on Setup **ITUResolutionDB-1.0-osx-installer.app** [in Mac OS] login as Administrator user

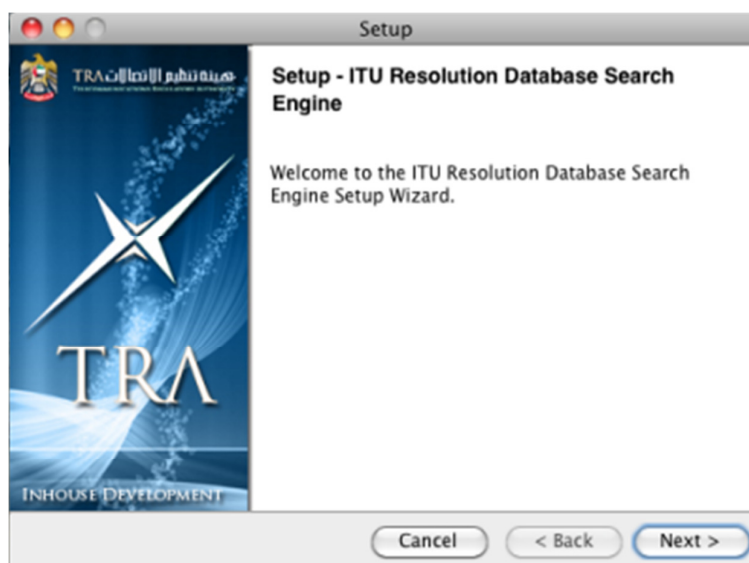


[Image24]



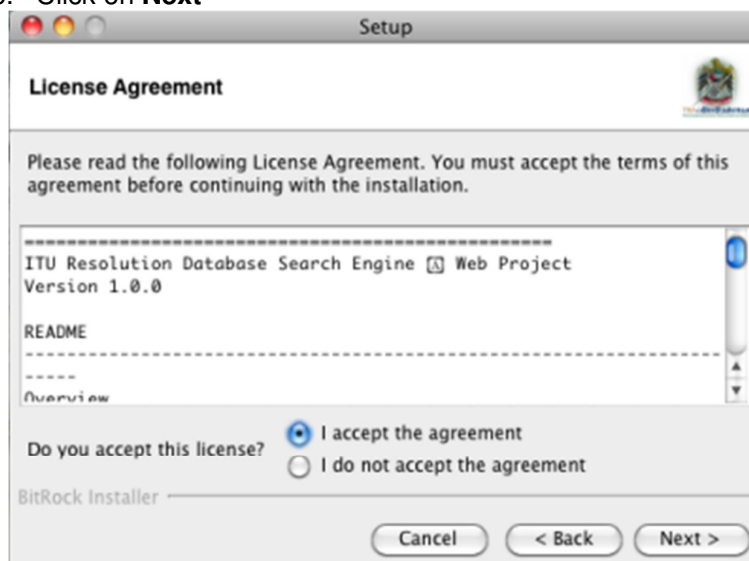
[Image25]

2. **Splash** Screen will run



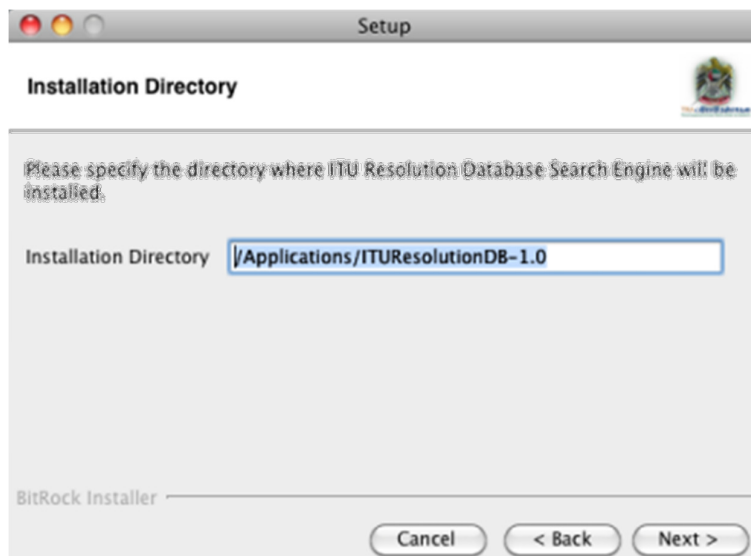
[Image26]

3. Click on **Next**



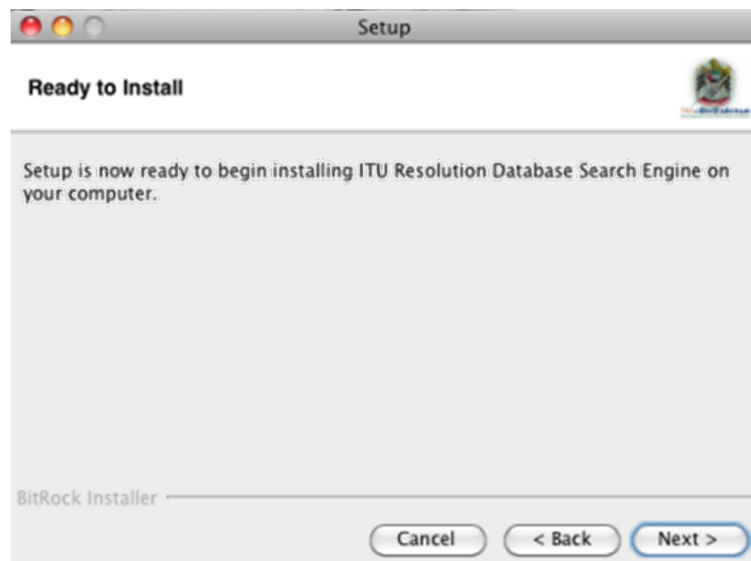
[Image27]

4. Click on **I accept** and Click on **Next**



[Image28]

5. Select the path of the Web Server {dynamic pages folder} is installed click on **Next**



[Image29]

6. It's ready for Copying the files, Click on **Next**



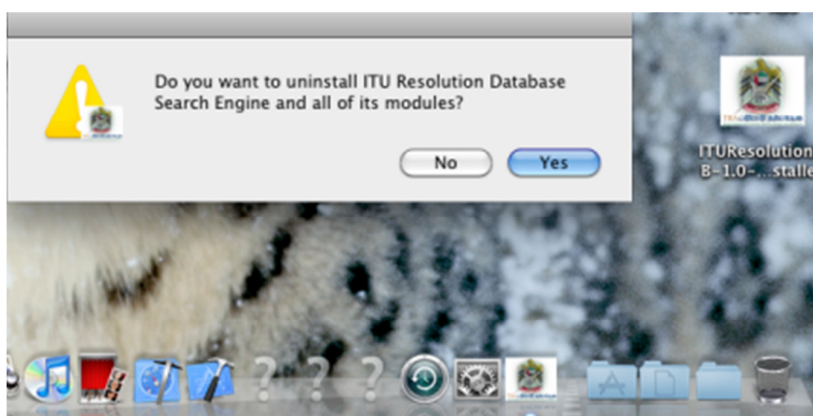
## Uninstallation:

5. Read the WARNING on point no. 6 before uninstalling
6. Go to Mac **Applications** Folder



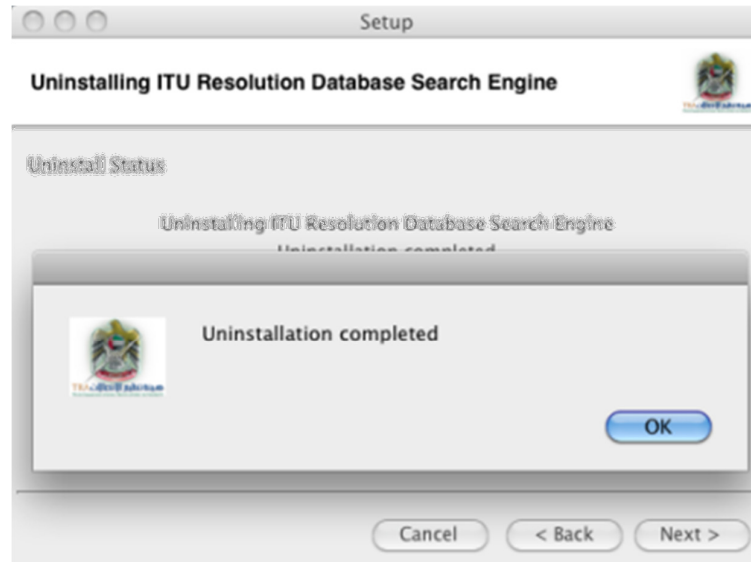
[Image33]

7. To Uninstall **Double click** on the uninstall file as shown in image32
8. Folder will open which contain the ITU Resolution Web Project
9. **Doubleclick** on the **uninstall** file



[Image33]

9. Click on **Yes**



[Image22]

10. Click **Ok**
11. All the ITU Resolution Web Project files will be deleted

## 7. Installation:

The Installation for the ITU Resolution web project as follows:

### 7.1.1 Copying the ITU Resolution web project dynamic web pages

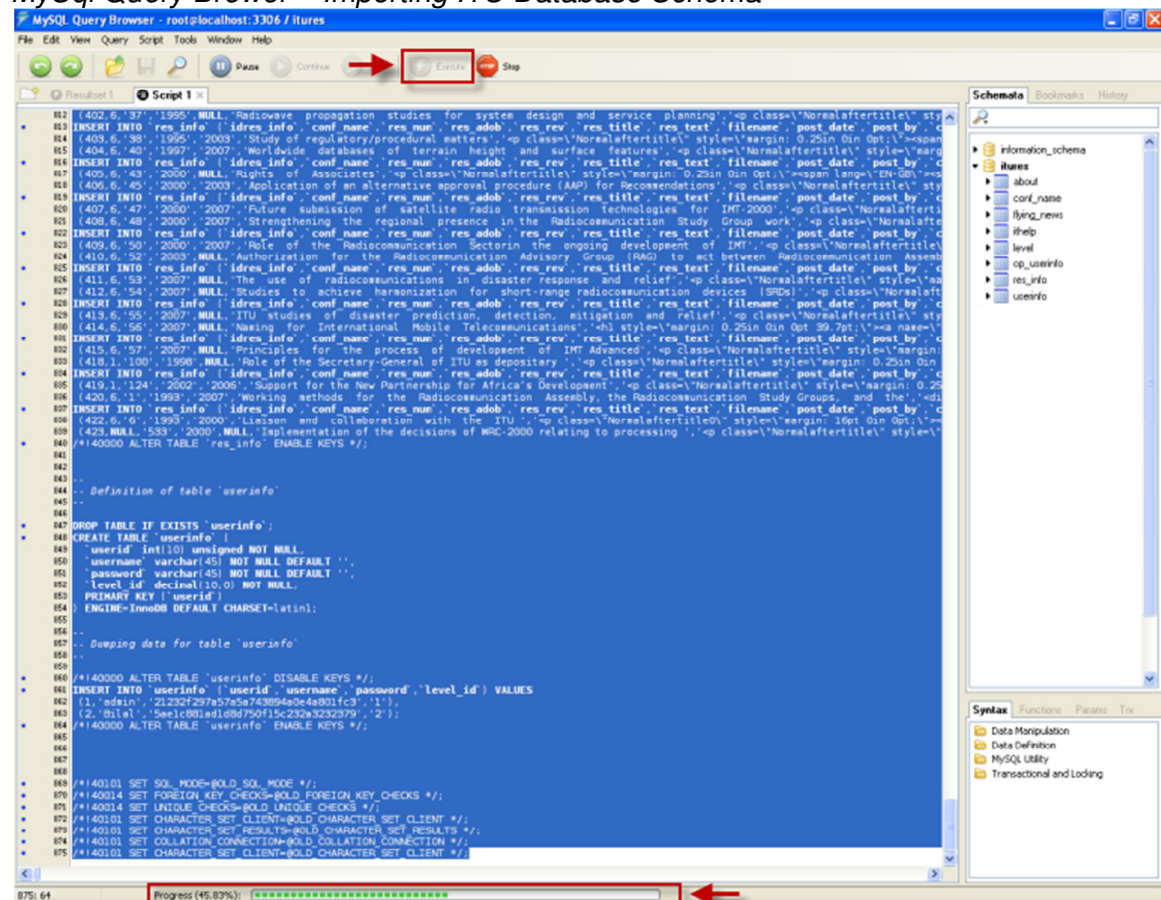
[Folder] on the Web Server [Apache http] root

### 7.1.2 RUN the SQL Script to generate the ITU Resolution Database

In Mysql database to generate the ITU Resolution Web Project schema

- i. MySQL Query Brower OR
- ii. phpMyAdmin

### MySQL Query Brower – Importing ITU Database Schema



The screenshot shows the MySQL Query Browser interface. The main window displays a SQL script for importing the ITU database schema. The script includes the following key sections:

- Table Definitions:**

```

CREATE TABLE `res_info` (
  `idres` int(11) unsigned NOT NULL,
  `idres_info` int(11) unsigned NOT NULL,
  `conf_name` varchar(45) NOT NULL DEFAULT '',
  `res_num` varchar(45) NOT NULL DEFAULT '',
  `res_adob` varchar(45) NOT NULL DEFAULT '',
  `res_rev` varchar(45) NOT NULL DEFAULT '',
  `res_title` varchar(255) NOT NULL DEFAULT '',
  `res_text` text NOT NULL,
  `filename` varchar(45) NOT NULL DEFAULT '',
  `post_date` datetime NOT NULL,
  `post_by` varchar(45) NOT NULL DEFAULT ''
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

CREATE TABLE `userinfo` (
  `userid` int(11) unsigned NOT NULL,
  `username` varchar(45) NOT NULL DEFAULT '',
  `password` varchar(45) NOT NULL DEFAULT '',
  `level_id` decimal(10,0) NOT NULL,
  PRIMARY KEY (`userid`)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;

```
- Data Insertion:**

```

INSERT INTO `res_info` (`idres`,`idres_info`,`conf_name`,`res_num`,`res_adob`,`res_rev`,`res_title`,`res_text`,`filename`,`post_date`,`post_by`) VALUES (1,'1','ITU Resolution 1995', '1995', '1995', '2003', 'Study of regulatory/procedural matters', '...', '...', '...', '...', '...');

```
- Table Alterations:**

```

ALTER TABLE `res_info` ENABLE KEYS *;
ALTER TABLE `userinfo` DISABLE KEYS *;
ALTER TABLE `userinfo` ( `userid`, `username`, `password`, `level_id` ) VALUES (1, 'admin', '21232f297a5755e743894d0e4801fc3', '1');
ALTER TABLE `userinfo` ( `userid`, `username` ) VALUES (2, 'bilal', '5e1c8b1d81d875f15c232a3232379', '2');
ALTER TABLE `userinfo` ENABLE KEYS *;

```
- Session Settings:**

```

SET SQL_MODE=@OLD_SQL_MODE *;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS *;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS *;
SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT *;
SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS *;
SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION *;
SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT *;

```

The progress bar at the bottom of the window shows that the script is 45.83% complete.

## phpMySql– Importing ITU Database Schema



The screenshot displays the phpMyAdmin interface for MySQL 5.5.8. The left sidebar contains navigation options, with 'Import' highlighted by a red box and an arrow. The main content area shows the 'Import' form. In the 'File to import' section, the 'Location of the text file' field contains the path 'C:\Documents and Settings\... Browse...' (Max: 8,192KB), which is also highlighted with a red box and an arrow. Below this, the 'Character set of the file' is set to 'utf8'. The 'Format of imported file' section has 'SQL' selected. At the bottom right, the 'Go' button is highlighted with a red box and an arrow.

### 7.1.3 Add the credential into the Web Connection PHP page

ITU\_WebFolder/connections/cc1.phpfile in the **Connections folder**

- i. \$hostname\_cc1 = "server\_name" [your hosting server or web link]
- ii. \$database\_cc1 = "itures" [database schema name]
- iii. \$username\_cc1 = "user\_name" [created user in your database]





## 8. About Telecommunication Regulatory Authority [TRA] - UAE:

The Telecommunications Regulatory Authority (TRA) of the United Arab Emirates (UAE) has been established according to the UAE Federal Law by Decree No. 3 of 2003, as amended – [Telecom Law]. TRA is responsible for the management of every aspect of the telecommunications and information technology industries in the UAE. Despite its relatively short life-span, TRA has exceeded expectations by achieving its projected goals in record time [visit: <http://tra.gov.ae>]

## 9. Contact details:

For any help and Support with regard to the developed ITU Resolution Database Search engine web project, contact on the below details

1. NaserAhmed Eidha Al Rashedi  
[naser.alrashedi@tra.gov.ae](mailto:naser.alrashedi@tra.gov.ae)  
Manager- ITU Affairs  
PO Box: 26662 Abu Dhabi, United Arab Emirates  
T: +971 2 6118454  
D: +971 50 6617751  
F: +971 2 611 8484