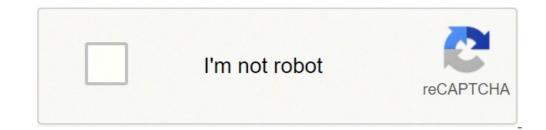
<u>Create a relational database</u>





Create a relational database

In this tutorial, we will show you have to create a MySQL database for a Content Management System (CMS) that we will create in a next tutorial. Once you have three things to do with tables: create them to relyse them Populate them before you can create a MySQL database, it is better to download a software package to install the resources needed to create it. There are many packages available (eg, Lamp, MAMP, ZENDAMF, etc.). However, a popular package known as Xampp .à is downloaded, XAMPP installer Apache, MySQL, Perl and PHP.ã, the «X» in Xampp represents one of the four supported operating systems (Windows, Mac, Solaris, Linux). XAMPT installation, (if necessary) If you have not already installed XAMPP, follow the following procedures: Download XAMPP on your computer. (Go to Double-click the installation file to installed In the C: / XAMPP directory, unless otherwise specified. Note: If you do not have permissions you can install XAMPP in the folder you want. However, for the sake of this tutorial, we will install it in the default HTE position previously mentioned. Open the Application dialog of the XAMP control panel) and activate Apache and MySQL by clicking the Start button for both. Note: You can interrupt both services by clicking on their Stop button. Note: You should see the word Apache and MySQL highlighted in green to let you know that both services started correctly. In previous versions you should see the word running HIGLIGHTED next to Apache and MySQL. Check if the server is set correctly for «serving» pages by typing http: // localhost or in a web browser (for example, Firefox or Internet Explorer). Note: For Mac users the path is: http: // localhost / ~ username / phpmyadmin / click on a language (for example, the English) on the page displayed. Note: You should see another page with the title of «Xampp for Windows» and a note that says Â «Congratulations: You have successfully installed XAMPP on this system! » It is important to remember that you type a URL (HTTP : // Localhost) pointing to a directory file (C: // XAMPP / HTDOCS / MyApplicationFolder /). When you head the server, you should see a page that displays the XAMPP directory. If you get a message that says the page cannot be displayed, check: to make sure you don't run iis simultaneously. If so, deactivate IIS (Control Panel,> Systemã, Administrative Tools> Services and select IIS and Stop, Service by clicking on the Stop button). If the previous step does not work, uninstall and then reinstall XAMPP and try again. Data normalization (only Duplicate data can cause errors whenever records in a database are inserted, updated or deleted and can lead to unpredictable results such as the impossibility of data in a database. Duplicating data occurs when two or more fields are inadvertently combined into a single table. To prevent this from happening, if the table is designed using a process called normalization, it will be free from duplicates. To normalize the tables into separate tables with the correct fields in them. It is said that a database is normalized as follows: Each table should have a primary key that is always unique that is used to identify a given record. Each associated data group should have its own table. The tables should be cross-referenced using a primary key in its children's table. Only one element must be stored in each field (i.e., you cannot have two phone numbers is a single field). Creating a MySQL database Typically, the first step in creating a dynamic database application is to create a database. IMPORTANT NOTE: While passages are generic; However, the values (in bold and blue) are specific for the next lesson. Type in localhost (or 127.0.0.1) in a browser and then click the phpMyAdmin button in the left sidebar. TIP: A shortcut for phpMyAdmin is localhost/phpmyadmin/. Give the database a name (in our case, type rmcs corporation1234) in the Create new database field and then click the Create new database field and then click the Create new database field and then click the Create new database a name that cannot be easily hacked. This is why 1234 was added to the database name. NOTE: MySQL will automatically convert any database name to all tiny ones so that you can enter subscores between words (i.e., tb student directory). phpMyAdmin confirmed that the database name that gave it (i.e., rmcs_corporation1234). Inside that folder you will see a file called db.opt. When you create tables in the next step, you will see several additional files with the name of your tables for database, you need to create the table (i) within it. In our case, we are creating the following four tables for our CMS that we will use in a next lesson: Student Directory Information Services Site Management Username/Password It is the best practice to create an entity relationship diagram (ERD) to define the table structure before created and you can have to recreate it if it is not done correctly. In addition to populate a table, you need to define its structure that includes. Click on the tab below to see detailed information on how to structure a table; Information on how to structure a table (Click to open tab and click again to close tab) Determining the number of columns â a shall be determined by the ERD. Name tables/columns "Â" (1-64) characters A"\$, numbers, letters and underline) with a descriptive name. It is advisable to assign the table a prefix A" (i.e., tb student directory). The table can start with a number, but it cannot be exclusively all numbers. NOTE: You cannot use MySQL backup words (e.g. date, time, etc.) when creating column names. Instead, use a compound word such as pick up_dateà or drop_off_date. Setting Column Data Type "Below is a list of the most common data types that may require further explanation: Storing Text: CHAR "Fissated length width text up to 255 characters. You can set a default value. NOTE: If you enter data larger than the allocated space, the data will be truncated in the database. VARCHAR Â"Â" Variable length of text in width up to over 65K. You can set a default value. TEXT "Â" stores up to 65K of text. Â Use cannot set a default value. This is useful because you don't need to specify a maximum size. TIP: Use VARCHAR for short text and TEXT for long text. Number Storage: TINYINT Â" integers between -2,147,483,648 and 2,147,483,648. If the column is declared UNSIGNED, the range is 0 to 4,294,967,295. Note that we used the unsigned double range on positive values. INT integers (whole numbers) between -128 and 127. If the coin is declarded as UNSIGNED, the range goes from 0 to 255 FLOAT Â"any floating point number. DECIMAL "Â" Any floating point number stored as a string. NOTE: The decimal is used primarily for currency. It is best to use INT and then use PHP to divide the result by 100 and then format the currency. NOTE: Do not use commas or spaces in your currency. You can use only the negative sign (A" -) or the period (A" .A"). Storage of dates and times: DATE A" stores the date as YYY-MM-DD DATE A" the date and times: DATE A" stores the date as YYY-MM-DD DATE A" the date and times: DATE A" stores the date as YYY-MM-DD DATE A" stores the date and times: DATE A" stores the date as YYY-MM-DD DATE A" stores the date and time are displayed (i.e., YYY-MM-DD HHH:M:SS) TIMESTAMPA" A" generated a timestamp system computer. Storing Default Lists: ENUM "stores a single selection from a predefined list" (i.e., yes, no, male, female). SET Stores zero or more selected up to 64 from a default list. Useful when an item forms a complete unit (i.e. extra optional) NOTE: ENUM and SET are stored in a comma-separated string. Individual values may include spaces but not commas for obvious reasons. Binary Large Objects: TINYBLOB stores up to 255 bytes BLOB stores up to 64KB MEDIUMBLOB stores up to 4GB determination of the default values «self-explanatory.â €» Determines, the collatering (order order) The embodiment determines the order sort order for the entire database, single table or column. Unless you are using a language other than English, Swedish or Finnish, you should leave the la drop-down box to its default. deternining the attributes - you can set if the value is binary, unsigned, unsigned, unsigned, unsigned zerofill or CURRENT TIMESTAMP update set if the columns fields are necessary to have the data - placing a control in the null column, you are saying that the field can be null. if you want the null field to be required, uncheck the null control box. is common practice not having the field values to allow null. In this way, you can create the client-side code to validate the data that will be entered in the database. if you set a default value for a null not, mysql will automatically use that default value if nothing is entered for that field. Index of the setting table - (primary, single, index and fulltext) each table should have a primary key even if you do not intend to use it currently. determine if the field will increase cars - when setting the primary key, it is a common practice to set this field as an automatic increment. adding comments explanatory auto. mime-type setting - setting the processing and processing options - click on the tab below to see the detailed information that is common notes to all tables (click to open tab and click again to close tab) common news at table: It is important to note that some columns depend on other columns. For example, if you set the data type column to varchar, you need to specify a length or value in the Length/Value column and an optional default value in the data you enter will meet your needs, if you allow the database to determine if a field is required, when missing data is found a useless error sometimes is thrown, if you use the module validation, you can customize the error with instructions on how to solve it. By default, all columns are set to non-null (or required) to make the columns optional, you must select all checkboxes (of course, if not when the A I option is selected for a field that is typically used in combination with the main table key.) all main key fields will have auto increments (A.I.) further fields (columns) can be added later, if necessary for a given field because the size of the field determines the size of the database. However, if the data field is too small, mysql will find the data is that it isGreat for the field. Each table has a primary key with its field name set to the table name and a "ID" suffix (ie, employeeid). Furthermore, its type of data controlled for car increases. If you click the Home button (the first icon) in the left sidebar at the top, you will see a list database listed below. If it returns to modify a one You will not see the Index column. It is shown at the bottom of the table once created. Create the first table: On the table page, type a table name (in our case, type students) in creating new table text field. Type the number of fields you need for your database (in our case, type 13) in the Text number fields field box and click the Go button to save the table. Type or select the information you need for the field (ie, studentid) in the field column or is not You can type nothing and default 11 Select the index type (ie, Primary) for the Index column Select the Default A (Automatic Increment) column check box. Click the first tab below to see the additional fields we added for each line. Note: phpMyAdmin will create a link in the sidebar to the table you just created. Create other tables: click on the database name in the left sidebar. This will allow you to create a new table. Repeat steps 1-5 for any additional table you need to create a new table. The tables of the table that are left blanks are implicit that the default values will be used or are not applicable to the value of these fields. For example, you don't need to set a length / value by date or time because the data type determines the value of these fields. Give the table a name of TB StudentDirectory. STUDNET Direcory Table Field Name Type Length / Currency Null Index Auto Increment Studentid Int Primary Control LastName Varchar 50 Check Address Var 12 Check Title Varchar 50 Check Department Varchar 50 Check Extension Int 10 Check Check Hiredate DateTime Note: The EditPage will be used in the CMS to determine who can modify the pages, but which department can be changed. The information table of information stores activities (for example, computers, telephone, etc.) assigned to employees. Give the table a name of TbinformationServices. Information Services Field Name Length / Currency Null Index Auto Increment Assetid Int Primary Control id varchar 11 control type varchar 25 check assetmodel varchar 50 control assetserial varchar 50 check datecontrol date check datecontrol date control date control date contained in its intranet site by clicking on each tab. Give the table a TbdeptsiteManagement name. Department Site management Management Field Name Note that an additional (default) column has been added for the Admin Privilege field. The length/value of the USERNAMEPASSWOEDID field is not required because the auto increment is selected and will determine the length of the field since you don't want anyone to have the same username, the unique option is set for the type of indexA" for the username field that cannot have the same value be entered twice. This can also be done with server behavior. The length/value of the password to a 40-character hexadecimal string. The value of the admin privirilage field type is set to Enum with the length/value set ('n', 'y') and the Defaulf value set to "n." All three values work together. The values in the Length / Value field must be separated by commas and passwords are stored in a separate table, so student data is not visible to students. Relating Tables (You need to upgrade to MySQL instead of MS Access) after a database has been created and the tables inserted into it. It is important to create "relationship" between particular tables. Since each employee is assigned a username and password from the Tbhumanresources table, a relationship between these two tables will also be created. With the database (in case, rmcs database1234.mdb) is still open, select Tools> Relationships from the menu. In the Show Table dialog box displayed, select all four tables and click the Add button. Note: Tables must be saved to see all fields Click the Close button to close the Show table dialog. Note: You should see the four tables in the reports window. Click the dependent field in TbinforformationSerbices and drag it to the dependent field in the TBHUMANRESOURCES box. Note: a one-to-many report is created à ¢ which means that an employee record in the TBHUMANRESOURCES box. table can have many records in the TbinformationServices table (ie, telephone, computer, etc.). In the Edit Reports dialog box, check all three options "and then click the Create button. Note: Selecting the referential integrity, when a record is deleted from the TBHUMANRESOURCES database, the records will also be deleted in the TbinformationServices database. Click And drag the dependent field in the TbuseernamePassword box on the dependent field in the TbuseernamePassword box on the dependent field in the TbuseernamePassword box. Again, select all three check boxes and click the Create button to create a relationship between these two tables. requested, click the option button and select "Enable this content". Popular tables after creating a database and its (s) table (s), you need to fill in these tables in the upcoming tutorials, from within Web application, we will create. Setting a user privilege and creating a user when you have installed MySQL, created a registered user called "root" which allows access to all databases. This should only be used by the administrator with a username and password that are created. It is the best practice to create user access even for each specific database. Generally, the administrator has complete access and users have limited access. Creating administrative access By creating a password: Click the Privileges tab at the top of the page to view a list of user accounts. Note: If this is a new installation, you need to view only the root user account. root to open the Edit Privileges screen. In global privileges, click on the control of all connections, structure and administration. Note: Note that the four types of data privileges correspond to the SQL command types (I.E., select, insert, update and delete). In the Change Password section, select the Password option button and then type the same password in the BOTH field. Leave the password that rises at the default moment. Click the Go button in the Change Password section. Note: if Selected "Config" as authentication type When setting up Phpadmin, you need to update the Config.inc.php file manually by updating the following line: \$ CFG ['Server'] A¢ [\$ i] Passord '] =' AternetWasswordhere '; you can create user account sthat may have fewer privileges, if needed, for a single single Create user privileges, if needed, for a single single Create user account. Click on the link Add a new user at the bottom of the page. In the Access Information section, change the following settings: Type a username line. Click the drop-down menu next to the Host word to select localhost to show the word localhost in the second field. Type the same password in Password and Re-digitare fields. In the Global Privileges section, just click the Go button. NOTE: You should see a confirmation that says "You added a new user." NOTE: You do not want to grant access to the whole database. In the database specific privileges, select the required option and then click the Go button. To delete a user, click the localhost link and select the user you want to delete by clicking the check box next to it, and then click the check box in the Remove Selected Users section, and then click the Go button.

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