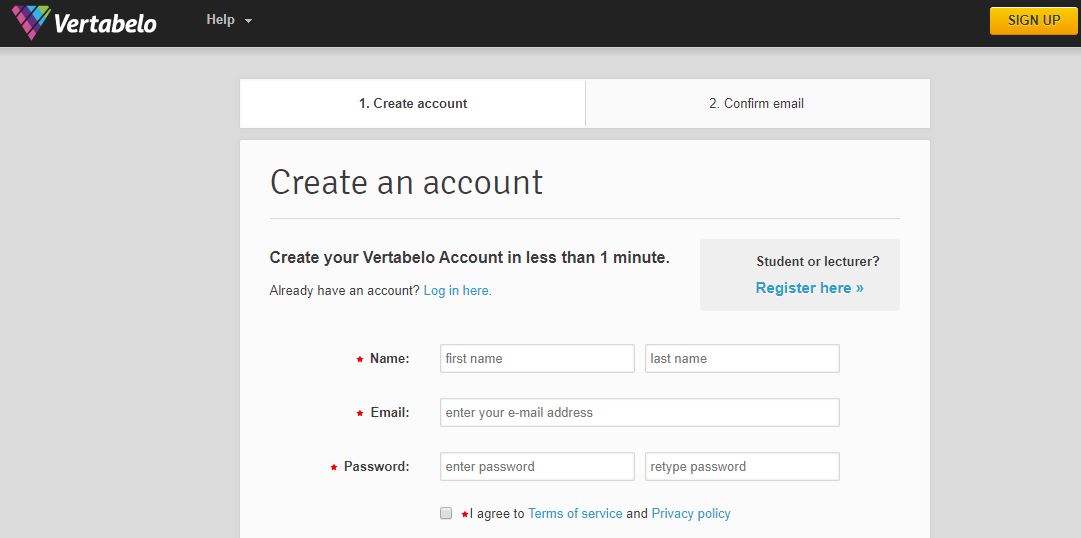
Vertabelo Instructions

MIS 2502

**How to create an account in Vertabelo?**

1. Access to vertabelo.com and click “sign up”.
2. You have to **create an academic account** by using your TUemail. Click ‘register here’ and follow the instruction.



**Follow these steps below to help create your database schema using Vertabelo.**

**Step 1**: From your main dashboard, CLICK “Create New Document” in the upper-left cornerA screenshot of a social media post

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**Step 2:** Select the ***Physical Data Model*** option and CLICK *Create.*

**Step 3:** Give your project a name and select any of the Database engine options e.g. ***MySQL 5.x***

Leave the **Content** radio button value as *empty*. CLICK *start modeling* to access your workspace.

A screenshot of a cell phone

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**Step 3:** SELECT the “Add New Table” Tab and click on your workspace (the white area in the middle of your screen) to create a new entity table.

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**Step 4:** Use the *TABLE PROPERTIES* tool bar on the right to give your table a name. CLICK the “+Add column” button to add attributes to your table.

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*“Columns”* Fields Explained:

* **Name**: Give the attribute an appropriate name.
* **Type**: Give the attribute an appropriate data type. (**This part is optional for the assignment/ICA**)
  + **Int**: Any whole number i.e 1, -1, 12345, 10, -15
  + **Varchar(%)**\*: Contains text i.e. “I love data analytics”, “Bob”
  + \*The % symbol indicates the maximum character length. That means if you want all of your first names to have a maximum of 20 letters, replace % with 20.
  + **Boolean**: Binary outcomes i.e true/false, yes/no
  + **Date**: Date or time i.e. “9/4/2019”, “11:11 PM”
* **N (Nullable)**: If the box is checked, the attribute may have a value of null (nothing). Ignore this field for now.
* **PK (Primary Key)**: Check this box on the same row as your primary key attribute.

**Step 5:** Create a relationship between two entities by clicking the *relationship tab*A close up of a logo

Description automatically generatedand dragging your mouse across both entities. A line connecting both entities will appear. Depending on the type of relationship, a foreign key (FK) may appear inside of a table.

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**Step 6: (Reference the picture below)** Click on the relationship line to modify the relationship. You may need to change it from one-to-many to one-to-one etc. If you have the right type of relationship, but in the wrong order, CLICK the “Swap Reference” button. Use the “Cardinality” tab under the “General” tool bar on the right to edit the type of cardinality.

**Symbols**:

1..\* means *one-to-many*

1..1 means *one-to-one*

The others reference minimum cardinality, which is not required for this exercise.

\*REMEMBER\* *many-to-many* relationships require the addition of a new entity table.

i.e. If the entities Unit and Household had a *many-to-many* relationship, you need to make a new entity table called “UnitHousehold” with a *one-to-many* relationship between Unit & UnitHousehold AND Household & UnitHousehold!! UnitHousehold should contain the primary keys of both Unit AND Household as foreign keys.

A screenshot of a social media post

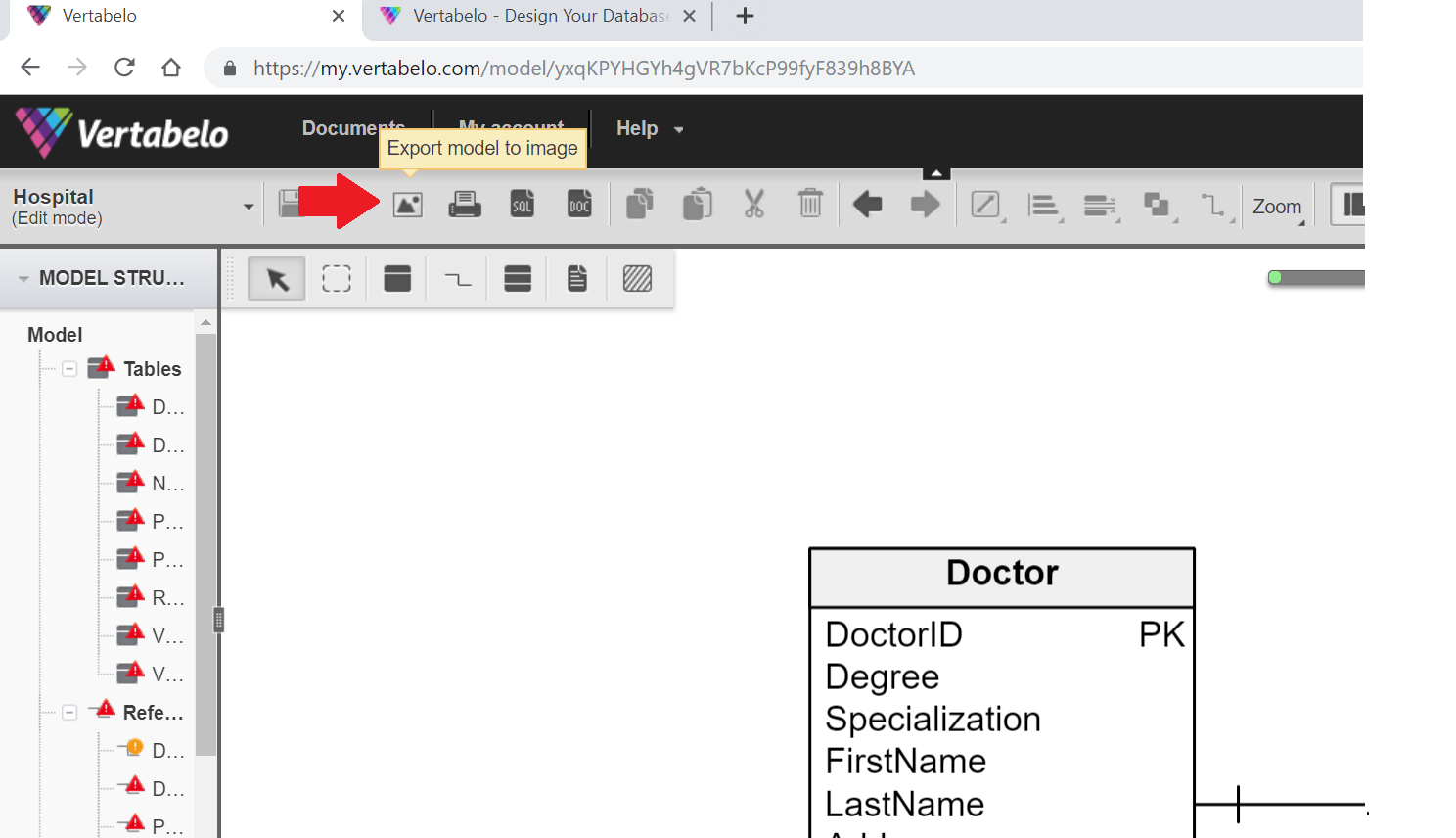
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In order to practice proper etiquette, you should have the foreign key (FK) of Resident connected to the primary key (PK) of Household with the relationship line. Vertabelo might not do this for you, but you can easily move the tables to make this happen.

**Step 7:** Save the tearsbyMAKING SURE TO SAVE YOUR WORK! CLICK the SAVE ICON to do so.

**How to place Schemas created in Vertabelo into Word documents?**

1. After creating your schema in Vertabelo, export a schema as an image file (with a .png file extension) from Vertabelo. To do so, click **Export Model to Image**.



Select PNG, then click generate and download the file