Trouble Shooting:

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| **#1:** Using the .sql file to create database:  **Error Code: 1046. No database selected Select the default DB to be used by double-clicking its name in the SCHEMAS list in the sidebar.  This is what happened when I tried to evaluate this section of createDB.sql:** | *-- ----------------------------------------------------- -- Table `SKILL\_QUESTION` -- -----------------------------------------------------* **CREATE TABLE** IF **NOT EXISTS** `SKILL\_QUESTION` (  `skill\_id` **INT** UNSIGNED **NOT NULL**,  `question\_id` **INT** UNSIGNED **NOT NULL**,  **PRIMARY KEY** (`skill\_id`, `question\_id`),  INDEX `fk\_SKILL\_QUESTION\_QUESTION1\_idx` (`question\_id` **ASC**),  **CONSTRAINT** `fk\_SKILL\_QUESTION\_SKILL`  **FOREIGN KEY** (`skill\_id`)  **REFERENCES** `SKILL` (`id`)  **ON DELETE NO ACTION  ON UPDATE NO ACTION**,  **CONSTRAINT** `fk\_SKILL\_QUESTION\_QUESTION1`  **FOREIGN KEY** (`question\_id`)  **REFERENCES** `QUESTION` (`id`)  **ON DELETE NO ACTION  ON UPDATE NO ACTION**) ENGINE = InnoDB; |

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| **Solution**: Table needs to be created within an existing database. Tables cannot be created outside of a database, just as a drawing cannot exist outside of the paper.  Double-click a database in the schemas table. It will become emboldened to notify that it is active. |  |

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| Trying again with same code we get another error: **Error Code: 1215. Cannot add foreign key constraint** | **CREATE TABLE** IF **NOT EXISTS** `SKILL\_QUESTION` (  `skill\_id` **INT** UNSIGNED **NOT NULL**,  `question\_id` **INT** UNSIGNED **NOT NULL**,  **PRIMARY KEY** (`skill\_id`, `question\_id`),  INDEX `fk\_SKILL\_QUESTION\_QUESTION1\_idx` (`question\_id` **ASC**),  **CONSTRAINT** `fk\_SKILL\_QUESTION\_SKILL`  **FOREIGN KEY** (`skill\_id`)  **REFERENCES** `SKILL` (`id`)  **ON DELETE NO ACTION  ON UPDATE NO ACTION**,  **CONSTRAINT** `fk\_SKILL\_QUESTION\_QUESTION1`  **FOREIGN KEY** (`question\_id`)  **REFERENCES** `QUESTION` (`id`)  **ON DELETE NO ACTION  ON UPDATE NO ACTION**) ENGINE = InnoDB; |

Solution:  
<https://dev.mysql.com/doc/refman/5.6/en/create-table-foreign-keys.html>  
https://www.youtube.com/watch?v=KBYU5bAR0\_g  
A bit for me to figure out. So I am going to look for a tutorial on foreign keys in MySQL WorkBench.

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| https://www.youtube.com/watch?v=KBYU5bAR0\_g  0:51-0:53: Access: Use NorthWind Database. 0:55-1:02: MySQL Server, can use NorthWind database that you can get from microsoft's website. 1:02-1:06: The rest of you will just have to follow along. 9:24: Order#1 cannot have 2 keys for the same product.         I kind of get this. But doesn't make sense if there is only ONE order one         which can only have ONE productID key. You wouldn't be stopped from entering         duplicate products. It just, wouldn't be possible. Because there is only one slot          for one product. 9:36 - 9:52: Many To Many relationship. One order can have many OrderDetails. One product can be in many OrderDetails. OOoh... Okay. I get it now. Also, when thinking of the OrderDetails table and the two keys. Just imaging gluing both keys together. The glued result MUST be unique. Don't forget to use leading zeros in this visualization.  9:52: When you join a table where on both sides, the item would be unique. You will get a many-to-many relationship that uses TWO primary keys. Both of those primary keys being FORIEGN keys because they come from the other tables.  10:00 - 10:19: Don't think a primary key is one field, because it could be many. | Defines: Referential Integrity: @10:22 Ensures: Uniqueness across all tables. @10:24 |

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| Data Export / Import: Tried importing the entire createDB.sql file this way. It didn’t quite work. But didn’t 100% fail according to the output trace.  Maybe look stuff up specifically about using “createDB.sql” files? I bet “createDB” is a convention that is commonly known.  Data-Export using MySQL WorkBench: https://www.youtube.com/watch?v=OcoIqgnHG54 |  |