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Project Schema

* **Words** (**id**, **word**, **definition**, **lang\_id**, **last\_edit\_id**)
  + **id** (**Primary** **key**) – unique identifier for this table
  + **word** – this is the word that we are trying to define
  + **definition** – this is the definition of the word
  + **lang\_id** (**Foreign** **key** refences the **Languages** table) – this is the language of the word we are defining
  + **last\_edit\_id** (**Foreign** **key** refences the **Users** table) – last user to edit this information
* **Languages** (id, lang) – *stores list of all languages supported by our multi-lingual dictionary*
  + **id** (**Primary** **key**) – unique identifier for this table
  + **lang** – language (ex. English, Spanish, …)
* **Users** (**id**, **name**) – *keeps track of all of our users*
  + **id** (**Primary** **key**) – unique identifier for this table
  + **name** - this is the name of the user
* **RelatedWords** (**id**, **from**, **to**, **last\_edit\_id**) – *stores what words translate to what other words*
  + **id** (**Primary key**)– unique identifier for this table
  + **from** (**Foreign Key** refences the **Words** table) – this is the id for word that will translate to the **to** column.
  + **to** (**Foreign Key** refences the **Words** table) - this is the id for word that will translate from the **from** column.
  + **last\_edit\_id** (**Foreign Key** from **Users** table) - last user to edit this information

how each table relates to other entities/tables:

**Words Languages Users RelatedWords**

**Words** n/a many to one many to one one to many

**Languages**  one to many n/a n/a n/a

**Users**  one to many n/a n/a one to many

**RelatedWords** many to one n/a many to one n/a

Normalization: We made sure that our SQL tables were normalized by adding the RelatedWords table rather that a list of foreign words as translations.