Jonathan Skaggs
Eric Burdett

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.