2/6/2021 Lect-08.html

Lecture 08 - Design Database with Entity Relationship Diagrams (ERD)

4820 L08 Draw ERD - https://youtu.be/2gSC6mwCwps 4820 L08 pt2 Use Lucid to draw ERD - https://youtu.be/rBdPFzsqpWI

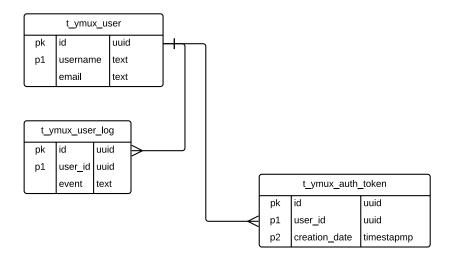
From Amazon S3 - for download (same as youtube videos)

4820 L08 Draw ERD 4820 L08 pt2 Use Lucid to draw ERD

ERDs.

An example with 3 tables.

2/6/2021 Lect-08.html



2/6/2021 Lect-08.html

The lines are foreign keys between tables.

Normally you create a table:

```
CREATE TABLE ct_homework_seen (
                                                          uuid DEFAULT uuid_generate_v4()
          id
        , user_id
                                                          uuid not null
                                                  uuid not null
        , homework_id
                                                  text not null
        , homework_no
        , when_seen
                                                          timestamp
                                                  int default 0 not null
        , watch_count
        , when_start
                                                  timestamp
        , updated
                                                          timestamp
        , created
                                                          timestamp default current_times
);
```

It has a unique primary key, type uuid, called id.

The user_id looks like a foreign key to a user table.

```
ALTER TABLE ct_homework_seen

ADD CONSTRAINT ct_homework_seen_id_fk

FOREIGN KEY (user_id)

REFERENCES "t_ymux_user" ("id")

;
```

The foreign key is the line between the tables.

The design above is using https://lucid.app/ It is not a tremendous tool for doing a ERD, but there is a free account and it is adequate for small designs. We will use it in this class. You should sign up for a free account.

Copyright © University of Wyoming, 2021.