



MySQL queries

In this document, you have to write the create table and the load table queries used to create the following tables:

1. "users" table

```
CREATE TABLE `users` (
 'id' varchar(1000) NOT NULL,
 'age' int(100) NOT NULL,
 `gender` varchar(50) NOT NULL,
 `internet_usage` varchar(100) NOT NULL,
 `income_bucket` varchar(100) NOT NULL,
 'user_agent_string' varchar(1000) NOT NULL,
 `device_type` varchar(1000) NOT NULL,
 'websites' varchar(1000) NOT NULL,
 'movies' varchar(1000) NOT NULL,
 'music' varchar(1000) NOT NULL,
 'programs' varchar(1000) NOT NULL,
 'books' varchar(1000) NOT NULL,
 'negatives' varchar(4000) NOT NULL,
 'positives' varchar(4000) NOT NULL,
 PRIMARY KEY ('id')
) ENGINE=InnoDB DEFAULT CHARSET=utf8;
```





2. "ads" table

```
CREATE TABLE 'ads' (
 'text' text NOT NULL,
 `category` varchar(1000) NOT NULL,
 'keywords' varchar(4000) NOT NULL,
 `campaign_id` varchar(500) NOT NULL,
 `status` varchar(500) NOT NULL,
 `target_gender` varchar(1000) NOT NULL,
 `target_age_start` int(1) NOT NULL,
 `target_age_end` int(100) NOT NULL,
 `target_city` varchar(1000) NOT NULL,
 `target_state` varchar(1000) NOT NULL,
 `target_country` varchar(1000) NOT NULL,
 `target_income_bucket` varchar(1000) NOT NULL,
 `target_device` varchar(1000) NOT NULL,
 'cpc' double NOT NULL,
 `cpa` double NOT NULL,
 `cpm` double NOT NULL,
 'budget' double NOT NULL,
 `current_slot_budget` double NOT NULL,
 `date_range_start` varchar(1000) NOT NULL,
 `date_range_end` varchar(1000) NOT NULL,
 `time_range_start` varchar(1000) NOT NULL,
 `time_range_end` varchar(1000) NOT NULL,
```





```
PRIMARY KEY ('campaign_id')
   ) ENGINE=InnoDB DEFAULT CHARSET=utf8;
   #alter ads table to save emoji
   ALTER TABLE
     `ads`
     CONVERT TO CHARACTER SET utf8mb4
     COLLATE utf8mb4_unicode_ci;
3. "served ads" table
   CREATE TABLE `served_ads` (
    `request_id` varchar(1000) NOT NULL,
    `campaign_id` varchar(1000) NOT NULL,
    `user_id` varchar(1000) DEFAULT NULL,
    `auction_cpm` double NOT NULL,
    `auction_cpc` double NOT NULL,
    `auction_cpa` double NOT NULL,
    `target_age_range` varchar(1000) NOT NULL,
    `target_location` varchar(1000) NOT NULL,
    `target_gender` varchar(1000) NOT NULL,
    `target_income_bucket` varchar(1000) NOT NULL,
    `target_device_type` varchar(1000) NOT NULL,
    `campaign_start_time` varchar(1000) NOT NULL,
    `campaign_end_time` varchar(1000) NOT NULL,
    'timestamp' timestamp NOT NULL,
```





PRIMARY KEY (`request_id`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8;

#ad index for performance

ALTER TABLE server_ads ADD INDEX (campaign_id);

ALTER TABLE server_ads ADD INDEX (user_id);

4. Query to load the users data

LOAD data local infile '~/capstone/users_500k.csv' INTO TABLE users fields terminated by '|' IGNORE 1 LINES;