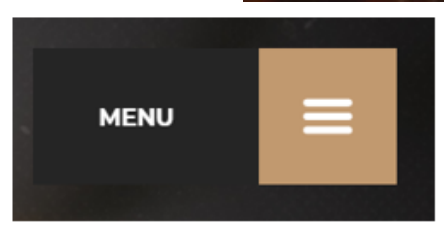# Bar-Beer-Drinker PLUS project demo

By group 66

Yuyang Cheng & Zihao Ding

Home Page

- General information about who made the page.

- Use Menu icon to go to the other pages.

MENU

Home

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SQL QUERY INTERFACE

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Bar Page

- Our bar page includes following:

  - Tables: Bar Table, Bill Table, Transaction Table

  - Graphs : see next page.

  - Add more Transaction.
    (At the bottom of page)

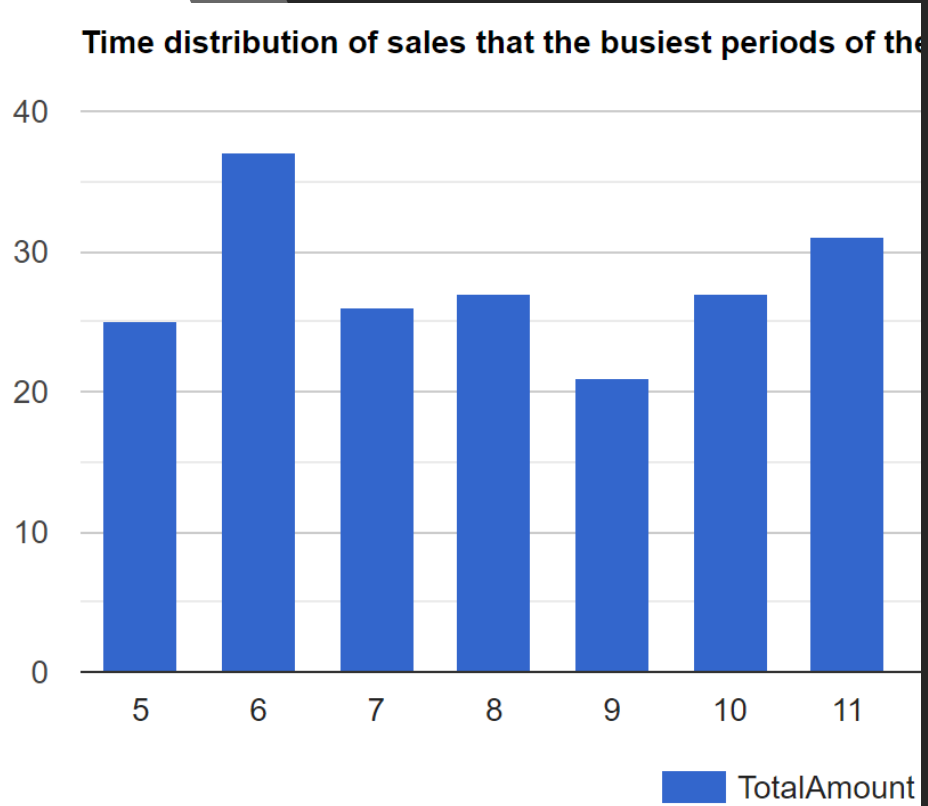 * It may takes two seconds for page to fully loaded.

Bar Page - Graphs

Time distribution of sales that the busiest periods of the

- Graphs in the Bar page includes following:

  - Top 10 Drinkers who spent most in a Bar

  - Top 10 popular beers in a Bar

  - Manufacturers who sold most beers in a Bar

  - Time distribution of sales in a day of the Bar

  - Time distribution of sales within a week of the Bar

(Just enter a Bar's License# in the Bar table)

Drinker Page

Bar graphs of beers s/he orders the most

- The drinker page includes following:
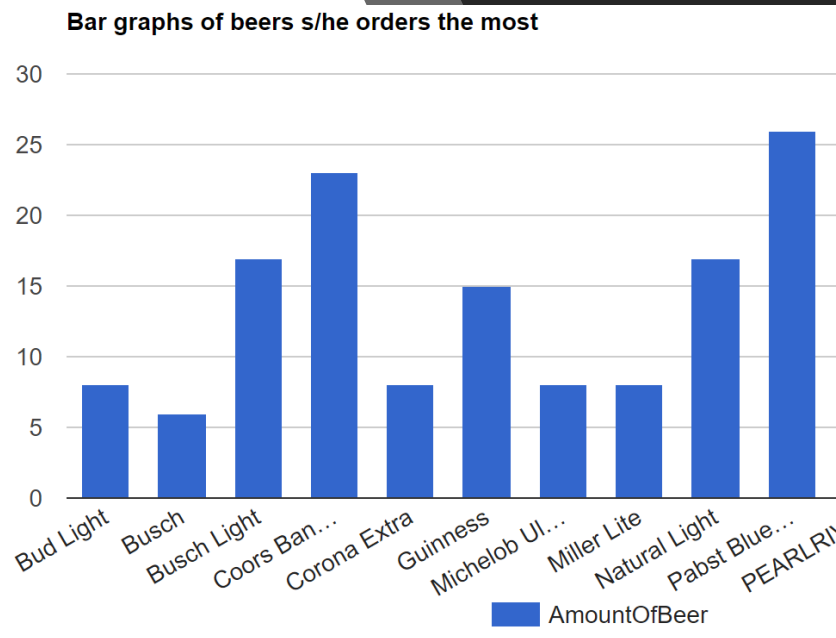
  - Tables: Drinker Table, Bill Table, Transaction Table

  - Ones transactions Table ordered by time and grouped by different bars

  - Graph of beers one ordered most.

  - Graph of ones spending in different bars during different time period.

  * It may take a second for page to fully loaded.

Beer Page

- The Beer page includes following:
  - Table: Beer Information Table.

  - Graph of Bars who sell the most amount of the beer.

  - Graph of Drinkers who purchased the beer more than others.

  - Time distribution of when the beer sells most.

Bar graph of top bars where this beer sells the most.
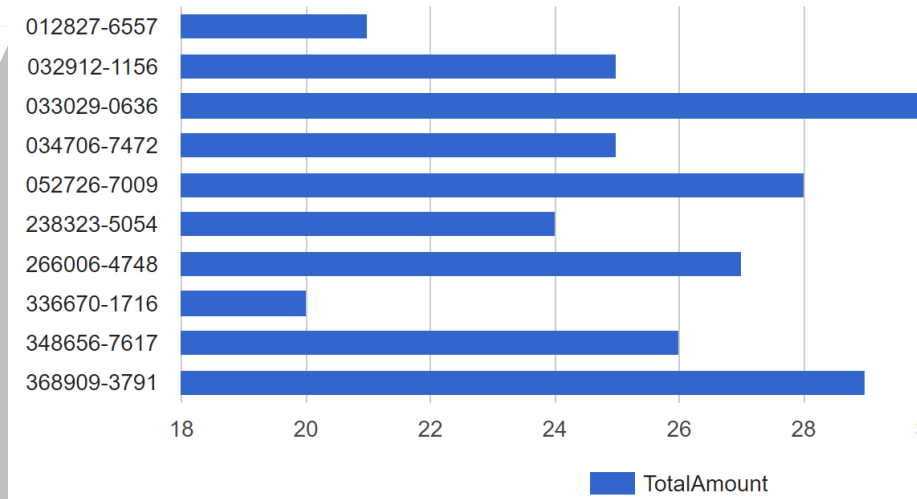
Drinkers who are the biggest consumers of this beer.
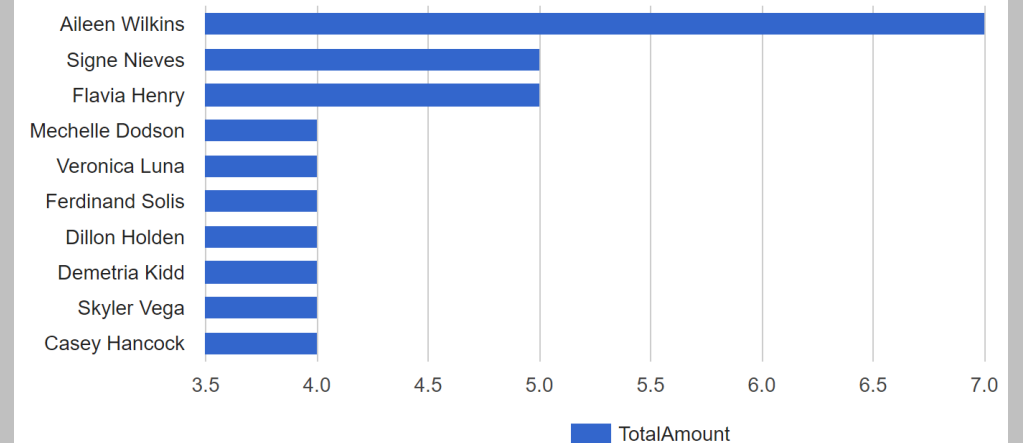
SQL QUERY INTERFACE

- On this page, there is a Relational Scheme which will give user some idea about our data base. Below the Relational Scheme is the box where user can input all SQL queries.

(To check ER diagram, just click Menu on the top right corner and then choose ER diagram.)

FEEL FREE TO TEST OUR DATABASE

Please type in your query here

Please follow the SQL rules, you can get from the below link
Clike me -_-.

```
To type query and hit enter
```

Submit

Modification Page

Update BAR Table

eld1 = new-value1, field2 = new-value2 [WHERE Clause];

UPDATE

Update BILL Table

eld1 = new-value1, field2 = new-value2 [WHERE Clause];

UPDATE

Update DRINKER Table

eld1 = new-value1, field2 = new-value2 [WHERE Clause];

UPDATE

- In this page, user can modify all the tables "freely". Those queries that against the "rules" will not be add to the database due the triggers set in those tables.
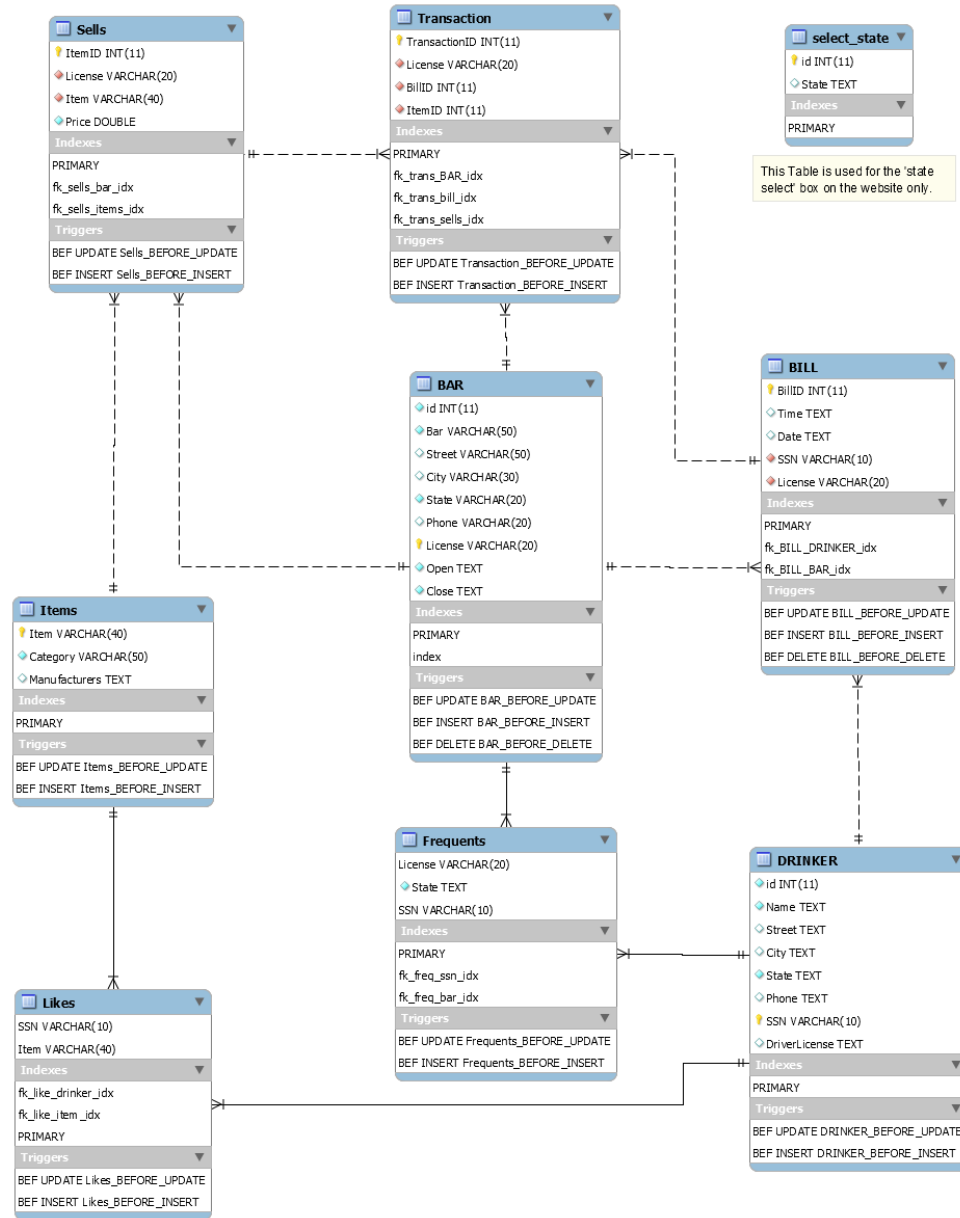
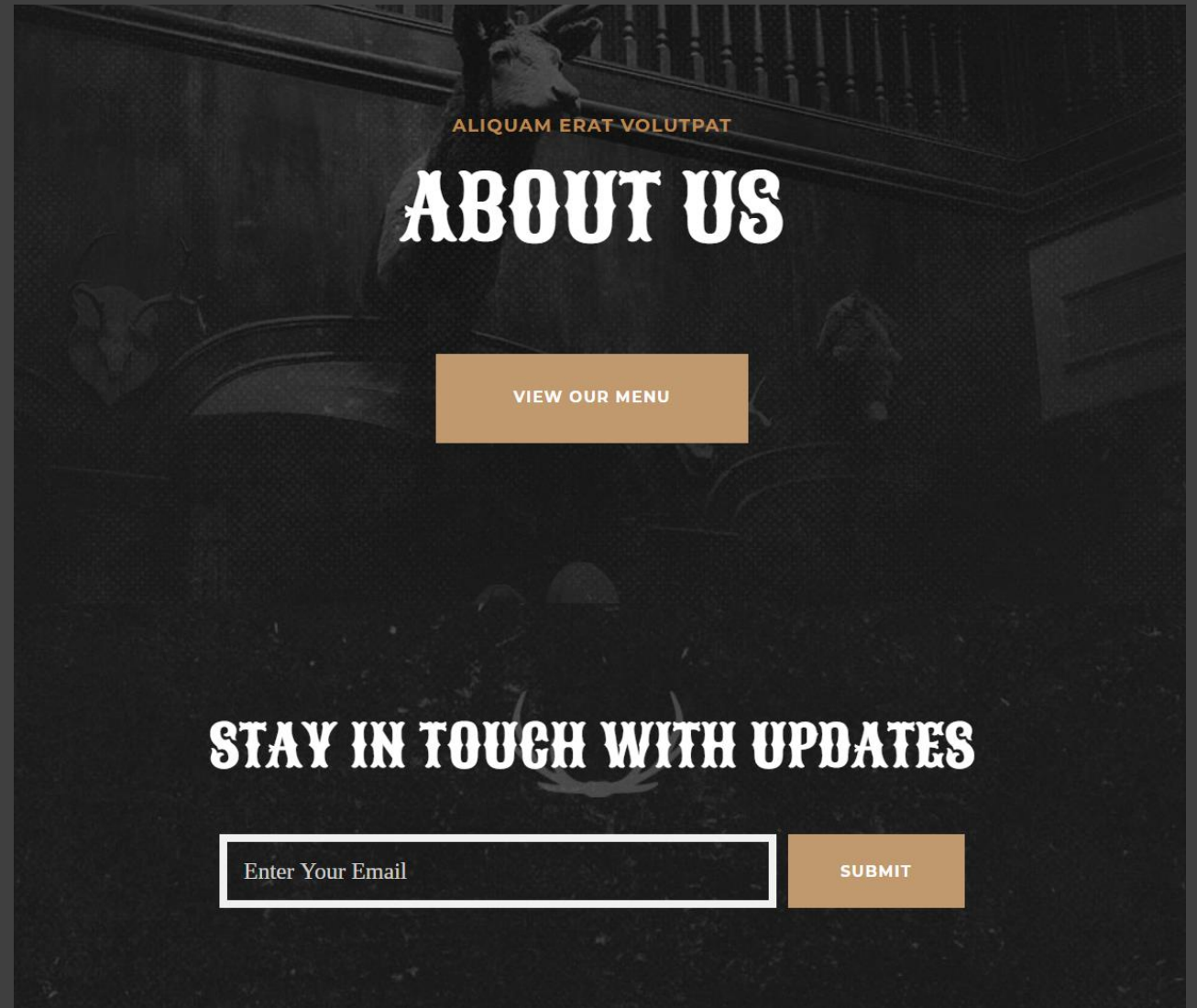(There is a Relational Scheme on top of page for reference.)

ER-Diagram Page

Display the ER Diagram of the Database.

Sells
- ItemID INT(11)
- License VARCHAR(20)
- Item VARCHAR(40)
- Price DOUBLE

Indexes
- PRIMARY
- fk_sells_bar_idx
- fk_sells_items_idx

Triggers
- BEF UPDATE Sells_BEFORE_UPDATE
- BEF INSERT Sells_BEFORE_INSERT

Transaction
- TransactionID INT(11)
- License VARCHAR(20)
- BillID INT(11)
- ItemID INT(11)

Indexes
- PRIMARY
- fk_trans_BAR_idx
- fk_trans_bill_idx
- fk_trans_sells_idx

Triggers
- BEF UPDATE Transaction_BEFORE_UPDATE
- BEF INSERT Transaction_BEFORE_INSERT

select_state
- id INT(11)
- State TEXT

Indexes
- PRIMARY

This Table is used for the 'state select' box on the website only.

BAR
- id INT(11)
- Bar VARCHAR(50)
- Street VARCHAR(50)
- City VARCHAR(30)
- State VARCHAR(20)
- Phone VARCHAR(20)
- License VARCHAR(20)
- Open TEXT
- Close TEXT

Indexes
- PRIMARY
- index

Triggers
- BEF UPDATE BAR_BEFORE_UPDATE
- BEF INSERT BAR_BEFORE_INSERT
- BEF DELETE BAR_BEFORE_DELETE

BILL
- BillID INT(11)
- Time TEXT
- Date TEXT
- SSN VARCHAR(10)
- License VARCHAR(20)

Indexes
- PRIMARY
- fk_BILL_DRINKER_idx
- fk_BILL_BAR_idx

Triggers
- BEF UPDATE BILL_BEFORE_UPDATE
- BEF INSERT BILL_BEFORE_INSERT
- BEF DELETE BILL_BEFORE_DELETE

Items
- Item VARCHAR(40)
- Category VARCHAR(50)
- Manufacturers TEXT

Indexes
- PRIMARY

Triggers
- BEF UPDATE Items_BEFORE_UPDATE
- BEF INSERT Items_BEFORE_INSERT

Frequents
- License VARCHAR(20)
- State TEXT
- SSN VARCHAR(10)

Indexes
- PRIMARY
- fk_freq_ssn_idx
- fk_freq_bar_idx

Triggers
- BEF UPDATE Frequents_BEFORE_UPDATE
- BEF INSERT Frequents_BEFORE_INSERT

DRINKER
- id INT(11)
- Name TEXT
- Street TEXT
- City TEXT
- State TEXT
- Phone TEXT
- SSN VARCHAR(10)
- DriverLicense TEXT

Indexes
- PRIMARY

Triggers
- BEF UPDATE DRINKER_BEFORE_UPDATE
- BEF INSERT DRINKER_BEFORE_INSERT

Likes
- SSN VARCHAR(10)
- Item VARCHAR(40)

Indexes
- fk_like_drinker_idx
- fk_like_item_idx
- PRIMARY

Triggers
- BEF UPDATE Likes_BEFORE_UPDATE
- BEF INSERT Likes_BEFORE_INSERT

About us Page

Display the information of our group and how to get connect with us.

Relational Scheme of Database

Relational Scheme:

BAR [id, Bar, Street, City, State, Phone, **Bar License**, Open, Close]

Items [**Item**, Category, Manufacture]

DRINKER [id, Name, Street, City, State, Phone, **SSN**, DriverLicense]

Sells [**ItemID**, License, Item, Price]

BILL [**BillID**, Time, Date, SSN, License]

Transaction [**TransactionID**, License, BillID, ItemID]

Frequents [License, State, SSN]

Likes [SSN, Item]

| **Primary key** |
| Foreign Key |

That's all

THANK YOU !