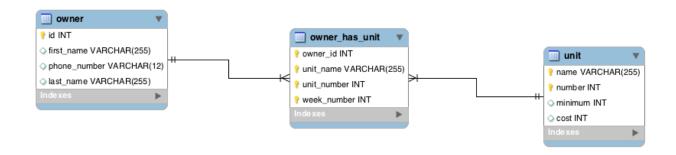
Josh Ault Tyler Terp Marius Volkhart

Schema

Our schema for this lab is represented by the following ER diagram and sql script.



SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0; SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0; SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='TRADITIONAL,ALLOW_INVALID_DATES';

DROP SCHEMA IF EXISTS lab4; CREATE SCHEMA IF NOT EXISTS lab4 DEFAULT CHARACTER SET latin1; USE lab4;

DROP TABLE IF EXISTS lab4.owner;

CREATE TABLE IF NOT EXISTS lab4.owner (
id INT NOT NULL AUTO_INCREMENT,
first_name VARCHAR(255) NULL,
phone_number VARCHAR(12) NULL,
last_name VARCHAR(255) NULL,
PRIMARY KEY (id))
ENGINE = InnoDB;

```
-- Table lab4.unit
DROP TABLE IF EXISTS lab4.unit;
CREATE TABLE IF NOT EXISTS lab4.unit (
 name VARCHAR(255) NOT NULL,
 number INT NOT NULL,
 minimum INT NULL.
 cost INT NULL,
 PRIMARY KEY (name, number))
ENGINE = InnoDB;
-- Table lab4.owner_has_unit
DROP TABLE IF EXISTS lab4.owner_has_unit;
CREATE TABLE IF NOT EXISTS lab4.owner_has_unit (
 owner_id INT NOT NULL,
 unit_name VARCHAR(255) NOT NULL,
 unit_number INT NOT NULL,
 week number INT NOT NULL,
 PRIMARY KEY (owner_id, unit_name, unit_number, week_number),
 INDEX fk_owner_has_unit_unit1_idx (unit_name ASC, unit_number ASC),
 INDEX fk_owner_has_unit_owner_idx (owner_id ASC),
 CONSTRAINT fk owner has unit owner
  FOREIGN KEY (owner_id)
  REFERENCES lab4.owner (id)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION,
 CONSTRAINT fk_owner_has_unit_unit1
  FOREIGN KEY (unit name, unit number)
  REFERENCES lab4.unit (name, number)
  ON DELETE NO ACTION
  ON UPDATE NO ACTION)
ENGINE = InnoDB;
SET SQL_MODE=@OLD_SQL_MODE;
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;
SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;
```

-- Load data from text files

Load Data local Infile 'owner_data.txt' into table lab4.owner fields terminated by '\t' optionally enclosed by "" lines terminated by '\n' ignore 1 lines;

Load Data local Infile 'unit_data.txt' into table lab4.unit fields terminated by '\t' optionally enclosed by "" lines terminated by '\n' ignore 1 lines;

Load Data local Infile 'owner_has_unit_data.txt' into table lab4.owner_has_unit fields terminated by '\t' optionally enclosed by "" lines terminated by '\n' ignore 1 lines;

Java Source Code

The source code is part of the directory that this report is in.

Database Data

Copies of the text files used to initialize the database can be found in the src/main/resources directory. There are 3 text files: owner_data.txt, unit_data.txt, and owner_has_unit_data.txt.

Note:

You do not need to import this data into your database because the create_schema script imports this data for you. Simply run the create_schema.sql file in the src/main/resources directory.

How to run

```
Run the packaged jar "dblab4.jar" from the command line with java -jar dblab4-standalone.jar -o src/main/resources/owner_data.txt -n src/main/resources/unit_data.txt -h src/main/resources/owner has unit data.txt
```

There is a bug with the input where you sometimes need to hit 'Enter' multiple times to make the next prompt appear.

Sample Outputs

2

```
8 - Show ownerships for specified week.

last name | first name | phone number
Anderson | Sara | 885-464-3318
Ault | Josh | 911-324-3344
Brown | Katie | 918-264-4483
Clark | Quentin | 525-252-6743
Davis | Sean | 948-776-4443
Garcia | Sally | 987-654-3210
Harris | David | 765-223-4334
Harris | Gerardo | 843-358-1991
Jackson | Mason | 445-334-2351
Johnson | Jack | 817-472-0573
Jones | Alison | 833-742-7743
```

3

```
8 - Show ownerships for specified week.

Unit name: Evergrown
Unit number: 2000
Weeks owned: 7
last name | first name
Anderson | Sara
Williams | George
```

4

```
8 - Show ownerships for specified week.

Unit name: Everyreen
Unit number: 202
last name | first name | share owed
Anderson | Sara | 62500.0
Williams | George | 62500.0
```

5

```
8 - Show ownerships for specified week.

Unit name: Evergrown
last name | first name | weeks owned
Anderson | Sara | 7
Ault | Josh | 1
Martinez | Mark | 1
Volkhart | Marius | 1
Williams | George | 7
```

6

```
8 - Show ownerships for specified week.

last name: Wolkhark
first name: Name:
unit name | unit number | weeks owned
Evergreen | 205 | 12
```

```
8 - Show ownerships for specified week.

unit name: Everyroom
unit number: 202
week | last name | first name
37 | Anderson | Sara
38 | Anderson | Sara
39 | Anderson | Sara
40 | Anderson | Sara
41 | Anderson | Sara
42 | Anderson | Sara
43 | Anderson | Sara
44 | Williams | George
45 | Williams | George
46 | Williams | George
47 | Williams | George
48 | Williams | George
49 | Williams | George
50 | Williams | George
```

8

```
8 - Show ownerships for specified week.

week number: 20
unit name | unit number | last name | first name
Marble Canyon | 122 | Garcia | Sally
Shorewood | 724 | Jones | Alison
Sunset Drive | 183 | Thomas | Steve
Sunset Drive | 185 | Smith | John
```

Time Log

Person	Time
Josh Ault	5 hours
Tyler Terp	6 Hours
Marius Volkhart	14 hours

Suggestions/Comments

```
Josh - None
Marius - None
Tyler - None
```