## 1 Introduction

In this project, we will need to design a web-based Smart Home Energy Management System. The project consists of two parts: database design and system implementation. In this part, we will describe a comprehensive database design. The organization of this part is as follows: In Section 2, we will conduct a needs analysis for the project, followed by table design, as well as assumptions and justifications for the design. Section 3 introduces the detailed creation of the database schema, specifying each table's columns, data types, and constraints. Finally, we will include some testing samples of the schema in Section 4.

# 2 Schema Design

### 2.1 Need Analysis

Based on the problem description, the information and functionalities needed can be concluded as follows:

- User System:
  - o Sign up: Name, billing address, email
  - One user <- many locations</li>
- Location:
  - o Able to modify locations
  - Attributes:
    - Full address, including unit number
    - Start date
    - Square feet
    - Num bedrooms
    - Number of occupants of the unit
    - List of registered devices
- Devices
  - Type: AC, fridge, ...
  - Model: Samsung AC R100, ...
  - Ownership: User, Locations. (Can have more than one same model in a location by a user)
  - Can have an ID
- Devices Events(Signal / Information)
  - Switching On / Off (Time)
  - Setting Changed (Time, setting[possibly]). e.g. AC temperature, light bulb brightness, fridge door opened / closed, ...
  - Energy consumption
    - info / 5min: energy use
    - switched off: energy use since last update
- Event format
  - o Device ID

- o time stamp
- label (e.g. energy\_consumption, temperature\_lowered, door\_opened, ...)
- number (corresponding to label)
- Energy Price
  - Vary according to:
    - Hour
    - Zip Code

## 2.2 Entity-Relation Design

Based on the need analysis, the Entity-Relation Graph can be drawn: Customer Location customer\_id location\_id first\_name location\_street\_num location\_street\_name last\_name email location\_unit\_number Owned by location\_city billing\_street\_num billing\_street\_name location\_state billing\_unit\_number location\_zipcode billing\_city square\_feet billing\_state num\_bedrooms billing\_zipcode num\_occupants cpassword start\_date Device\_model Device\_registered model\_id Belong to Placed at model\_type device\_id model\_name tag Sent by Energy\_price Device\_event zipcode event\_datetime hour\_of\_day event\_label price event\_number

### 2.3 Assumptions and Justifications

The ER-Gram is calculated based on some assumptions, some of which will actually affect the schema. Below is an description of all the assumptions made:

#### 2.3.1 User & Location

#### Assumptions:

- 1. Each user can only have one billing address. So billing\_address could be an attribute in user table.
- 2. Each home location can only belong to one account, so customer\_id & start\_date should be an attribute in address table.
- 3. We assume the location format as the following: (Line 1)street\_number street\_name (Line 2)unit\_number (zip code info)city, state zipcode. Based on the atomic principals, addresses are separated into different columns (e.g. street\_num, street\_name, ...).
- 4. We also assume the input addresses are all legal(they really exist, and in the right format).

#### 2.3.2 Device & Event

#### Assumptions:

- 1. All the device models are in the list of device\_model table, whenever a new device is promoted, we can modify the database to put it into the table.
- 2. User can only register devices of which the models are in the device\_model table. So there won't be any records in the *device\_registered* table with ambiguous model\_id.
- 3. There are only limited number of event\_label, and every the event\_label revceived by the system should be legal.
- 4. As mentioned in the problem desciption, we don't have to model how the system prestored all the event\_labels. So we assume that the events are automatically stored into the database(such process is not modeled). In the project, this process might be simulated by manaully insert data into the model\_event table.
- 5. We assume that devices could generate two (or more) events at the same timeframe. However, such events will not have a same event\_label. For example, when an AC is turened off, it generates two events: 'Off' and 'EnergyReport' with a same timeframe. Consequently, (device\_id, event\_label, event\_datetime) is a candidate key of the device\_event table.

### 2.3.3 Energy Price & Calculation

#### Assumptions:

- 1. The unit of energy price is *dollars / kwh*. The unit of the energy consumption reported by devices is *kwh*.
- 2. Because the energy price might vary between two consecutive hours, there might be situations where one EnergyReport has a time span across tow hours(e.g. first 2 minites in 7 and the other 3 minutes in 8). In this case, we choose the unit price of the second hour for calculation, resulting in an approximate energy price, which would not have significant difference with the actual price, given that the numbers of kwh used by home devices per 5 minutes are very small, and that the unit price of energy would not vary a lot.

### 2.4 Tables Design

#### 2.4.1 User & Location Table

customer: (**customer\_id**, first\_name, last\_name, email, billing\_street\_num, billing\_street\_name, billing\_unit\_number, billing\_city, billing\_state, billing\_zipcode, cpassword) location: (**location\_id**, customer\_id, location\_street\_num, location\_street\_name, location\_unit\_number, location\_city, location\_state, location\_zipcode, square\_feet, num\_bedrooms, start\_date, num\_occupants)

#### 2.4.2 Device & Event

device\_model(**model\_id**, model\_type, model\_name), *This is for prestoring devices for user to register* 

device\_registered(**device\_id**, model\_id, location\_id, tag), *This is for devices registered by user* device\_event(**device\_id**, **event\_label**, **event\_datetime**, event\_number), event\_number corresponds to event\_label

#### 2.4.3 Energy Price

energy\_price(zipcode, hour\_of\_day, price), Energy prices vary on hourly and locational basis

### 3 Database Creation

In this part, we choose MySQL to implement the schema.

#### 3.1 customer

```
CREATE TABLE customer(
    customer_id INT AUTO_INCREMENT,
    first_name VARCHAR(63) NOT NULL,
    last_name VARCHAR(63) NOT NULL,
    email VARCHAR(255) NOT NULL,
    billing_street_num INT NOT NULL,
    billing_street_name VARCHAR(127) NOT NULL,
    billing_unit_number VARCHAR(127) NOT NULL,
    billing_city VARCHAR(127) NOT NULL,
    billing_state VARCHAR(16) NOT NULL,
    billing_zipcode VARCHAR(5) NOT NULL,
    cpassword VARCHAR(127) NOT NULL,
    PRIMARY KEY (customer_id)
);
```

### 3.2 location

```
CREATE TABLE location (
    location id INT AUTO INCREMENT,
    customer id INT NOT NULL,
    location street num INT NOT NULL,
    location street name VARCHAR (127) NOT NULL,
    location unit number VARCHAR (127) NOT NULL,
    location city VARCHAR (127) NOT NULL,
    location state VARCHAR (127) NOT NULL,
    location zipcode VARCHAR(5) NOT NULL,
    square feet FLOAT NOT NULL,
   num bedrooms INT NOT NULL,
    num occupants INT NOT NULL,
    start date DATETIME NOT NULL,
    PRIMARY KEY (location id),
    FOREIGN KEY (customer_id) REFERENCES customer(customer_id) ON
DELETE CASCADE
);
```

### 3.3 device\_model

```
CREATE TABLE device_model(
    model_id INT AUTO_INCREMENT,
    model_type VARCHAR(127) NOT NULL,
    model_name VARCHAR(127) NOT NULL,
    PRIMARY KEY (model_id)
);
```

### 3.4 device\_registered

```
CREATE TABLE device_registered(
    device_id INT AUTO_INCREMENT,
    model_id INT NOT NULL,
    location_id INT NOT NULL,
    tag VARCHAR(255),
    PRIMARY KEY (device_id),
    FOREIGN KEY (model_id) REFERENCES device_model(model_id) ON

DELETE CASCADE,
    FOREIGN KEY (location_id) REFERENCES location(location_id) ON

DELETE CASCADE
);
```

## 3.5 device\_event

```
CREATE TABLE device_event(
    device_id INT NOT NULL,
    event_datetime DATETIME DEFAULT CURRENT_TIMESTAMP,
    event_label VARCHAR(63) NOT NULL,
```

```
event_number FLOAT,
    PRIMARY KEY (device id, event datetime, event label),
    FOREIGN KEY (device_id) REFERENCES device_registered(device_id)
ON DELETE CASCADE
);
```

# 3.6 energy\_price(zipcode, hour\_of\_day, price)

```
CREATE TABLE energy_price(
   zipcode VARCHAR(5),
   hour_of_day INT NOT NULL,
   price FLOAT NOT NULL,
   PRIMARY KEY (zipcode, hour_of_day)
);
```

# 4 SQL

Before testing the queries, meaningful data has been inserted into the database to ensure the testing results:

customer_ru	first_name	last_name   em	ail   t	illing_street_num	billing_street_nar	ne   billing_un	nit_number   bi	illing_city	billing_state	billing_zipcod	e   cpassword
1	John	Doe   jo	nn.doe@example.com	123	5th Avenue	Apt 1005	Ne	ew York	NY	10003	HelloPassWord1
2	Jane	Smith   ja	ne.smith@example.com	456	Madison Avenue	Apt 2406	į Ne	ew York	NY	10022	HelloPassWord1
3	Alice	Johnson   al	ice.johnson@example.com	789	Park Avenue	Apt 0701	Ne	ew York	NY	11206	HelloPassWord1
4	Bob	Williams   bo	o.williams@example.com	101	Broadway	Apt 2803	Ne	ew York	NY	11249	HelloPassWord1
5	Emily	Brown   em	ily.brown@example.com	202	Wall Street	Apt 1502s	Ne	ew York	NY	10005	HelloPassWord1
			location_street_name	location_unit_numbe							
		location_street_nu	location_street_name		r   location_city	location_state		de   square_fe	et   num_bedrooms	num_occupants	start_date
			location_street_name	location_unit_numbe	location_city     New York	location_state	location_zipco	de   square_fe   8		num_occupants	start_date 
		location_street_nu 	n   location_street_name B   5th Avenue 6   Washington Boulevard 6   Madison Avenue	location_unit_numbe   Apt 1005   Apt 1303   Apt 2406	location_city     New York     Jersey City     New York	location_state   NY   NJ   NY	10003 07310 10022	de   square_fe   8   7	et   num_bedrooms 	num_occupants   2   2   2   2	start_date 2022-07-31 23:59:59 2022-07-31 23:59:59 2022-07-31 23:59:59
		location_street_nu 	location_street_name   5th Avenue   Washington Boulevard   Madison Avenue   Park Avenue	location_unit_numbe   Apt 1005   Apt 1303   Apt 2406   Apt 0701	r   location_city     New York     Jersey City     New York     New York	location_state   NY   NJ   NY   NY	10003 07310 10022 11206	de   square_fe   8   7   7	et   num_bedrooms 55   2 39   2 13   1 33   2	num_occupants   2   2   2   2   2   3	start_date 2022-07-31 23:59:59 2022-07-31 23:59:59 2022-07-31 23:59:59 2022-07-31 23:59:59
		location_street_nu 	location_street_name   5th Avenue   Washington Boulevard   Madison Avenue   Park Avenue   Christopher Columbus Drive	location_unit_numbe   Apt 1005   Apt 1303   Apt 2406   Apt 0701	New York   Jersey City   New York   Jersey City   New York   Jersey City	location_state   NY   NJ   NY   NY	10003 07310 10022	de   square_fe   8   7   7   8	et   num_bedrooms 	num_occupants   2   2   2   1   2   1   3   1   3   1	

model_id   model_type	+   model_name
1   Refrigerator 2   Refrigerator 3   Air Conditioner 4   Air Conditioner 5   Light Bulb 6   Light Bulb 7   Smart Speaker 8   Smart Speaker	Samsung Family Hub Refrigerator   LG Smart Wi-Fi Enabled Refrigerator   Daikin Smart Inverter AC   Samsung Wind-Free Air Conditioner   Philips Hue White and Color Ambiance   LIFX A60 Smart Bulb   Amazon Echo Dot   Google Nest Audio

			· 
device_id	model_id	location_id	tag
1	5	1	Light Bulb in the Bedroom
2	6	1	Light Bulb in the Kitchen
j 3	5	1	Light Bulb in the Living Room
j 4	1	1	Refrigerator in the Kitchen
j 5	3	1	AC in the Living Room
6	7	1	Smart Speaker in the Bedroom
7	6	2	Light Bulb in the Bedroom
8	5	2	Light Bulb in the Kitchen
9	6	2	Light Bulb in the Living Room
10	2	2	Refrigerator in the Kitchen
11	4	2	AC in the Living Room
12	5	3	Light Bulb in the Bedroom
13	5	3	Light Bulb in the Kitchen
14	6	3	Light Bulb in the Living Room
15	1	3	Refrigerator in the Kitchen
16	3	3	AC in the Living Room
17	8	3	Smart Speaker in the Bedroom
18	6	4	Light Bulb in the Bedroom
19	6	4	Light Bulb in the Kitchen
20	5	4	$\mid$ Light Bulb in the Living Room $\mid$
21	2	4	Refrigerator in the Kitchen
22	4	4	AC in the Living Room
23	5	5	Light Bulb in the Bedroom
24	5	5	Light Bulb in the Kitchen
25	6	5	$\mid$ Light Bulb in the Living Room $\mid$
26	1	5	Refrigerator in the Kitchen
27	3	5	AC in the Living Room
28	7	5	Smart Speaker in the Bedroom
29	6	6	Light Bulb in the Bedroom
30	6	6	Light Bulb in the Kitchen
31	5	6	Light Bulb in the Living Room
32	2	6	Refrigerator in the Kitchen
33		6	AC in the Living Room
34	5	7	Light Bulb in the Bedroom
35	6	7	Light Bulb in the Kitchen
36	5	7	Light Bulb in the Living Room
37	1 1	7	Refrigerator in the Kitchen
38	] 3	7	AC in the Living Room
39	8	7	Smart Speaker in the Bedroom

39 rows in set (0.03 sec)

device_id	event_datetime	event_label	event_number
1	2022-08-01 07:06	:00   On	NULL
1	2022-08-01 07:11	:00   EnergyReport	0.0075
1	2022-08-01 07:16	:00   EnergyReport	0.0075
1	2022-08-01 07:21	:00   EnergyReport	0.0075
1	2022-08-01 07:26	:00   EnergyReport	0.0075
1	2022-08-01 07:31	:00   EnergyReport	0.0075
1	2022-08-01 07:36	:00   EnergyReport	0.0075
1	2022-08-01 07:41	:00   EnergyReport	0.0075
1	2022-08-01 07:46	:00   EnergyReport	0.0075
1	2022-08-01 07:51	:00   EnergyReport	0.0075
1	2022-08-01 07:56	:00   EnergyReport	0.0075
1	2022-08-01 08:01	:00   EnergyReport	0.0075
1	2022-08-01 08:06	:00   EnergyReport	0.0075
1	2022-08-01 08:11	:00   EnergyReport	0.0075
1	2022-08-01 08:16	:00   EnergyReport	0.0075
1	2022-08-01 08:21	:00   EnergyReport	0.0075
1	2022-08-01 08:26	:00   EnergyReport	0.0075
1	2022-08-01 08:31	:00   EnergyReport	0.0075
1	2022-08-01 08:36	:00   EnergyReport	0.0075
1	2022-08-01 08:41	:00   EnergyReport	0.0075
1	2022-08-01 08:46	:00   EnergyReport	0.0075
1	2022-08-01 08:48	:00   DarkMode	NULL
1	2022-08-01 08:51	:00   EnergyReport	0.005
1	2022-08-01 08:56	:00   EnergyReport	0.005
1	2022-08-01 09:01	:00   EnergyReport	0.005
1	2022-08-01 09:06	:00   EnergyReport	0.005
1	2022-08-01 09:11	, ,,	0.005
1	2022-08-01 09:16	, ,,	0.005
1	2022-08-01 09:21	, ,,	0.005
1	2022-08-01 09:26	:00   EnergyReport	0.005
+	<b></b>	+	+

30 rows in set (0.03 sec)

[mysql> select \* from energy\_price limit 30;

zipcode 	hour_of_day +	price	
07097	0	0.08	
07097	1	0.08	
07097	2	0.08	
07097	] 3	0.08	
07097	4	0.08	
07097	5	0.08	
07097	6	0.08	
07097	7	0.08	
07097	8	0.13	
07097	9	0.13	
07097	10	0.13	
07097	11	0.13	
07097	12	0.13	
07097	13	0.13	
07097	14	0.13	
07097	15	0.13	
07097	16	0.184	
07097	17	0.184	
07097	18	0.184	
07097	19	0.184	
07097	20	0.184	
07097	21	0.184	
07097	22	0.184	
07097	23	0.184	
07302	0	0.08	
07302	1	0.08	
07302	2	0.08	
07302	3	0.08	
07302	4	0.08	
07302	5	0.08	

30 rows in set (0.03 sec)

<sup>1.</sup> List all enrolled devices with their total energy consumption in the last 24 hours, for a specific customer identified by customer ID.

Assume the current time is 2022-08-17 14:00:00(replaced with NOW() in real application scenarios)

```
SELECT
    dr.device_id,
    SUM(de.event_number) AS total_energy_consumption
FROM
    device_event de
    JOIN device_registered dr ON de.device_id = dr.device_id
    JOIN location 1 ON l.location_id = dr.location_id
WHERE
    de.event_label = 'EnergyReport'
    AND customer_id = 1
GROUP BY
    de.device_id
HAVING
    MAX(de.event_datetime) >= '2022-08-17 14:00:00' - INTERVAL 24
HOUR;
```

devi	ce_id	total_	_energy_consumption
 	1		1.3749999713618308
İ	2		1.5439999671652913
İ	3		1.0474999791476876
İ	4		107.0999982431531
İ	7		1.4579999695997685
İ	8		0.8994999811984599
İ	9		1.8564999600639567
ĺ	10		88.76600099727511
+			+
8 rows	in set	(0.08	sec)

2. Calculate the average monthly energy consumption per device type, for the month of August 2022, considering only devices that have been on (i.e., reported data) at least once during that month.

3. Identify cases where a refrigerator door was left open for more than 30 minutes. Output the date and time, the service location, the device ID, and the refrigerator model.

```
SELECT
    CONCAT (
        1.location street num,
        '',
        1.location street name,
        ', Unit ',
        1.location unit number,
        1, 1,
        1.location_city,
        ', ',
        1.location state,
        '',
        1.location zipcode
    ) AS location,
    dr.device id,
    dm.model type,
    de.event datetime AS OpenTime
FROM
    device event de
    JOIN device_registered dr ON de.device_id = dr.device_id
    JOIN device model dm ON dr.model id = dm.model id
    JOIN location 1 ON l.location_id = dr.location_id
WHERE
    de.event label = 'DoorOpen'
```

```
AND dm.model_type = 'Refrigerator'

AND NOT EXISTS(

SELECT

*

FROM

device_event de2

WHERE

de2.device_id = de.device_id

AND de2.event_label = 'DoorClose'

AND de2.event_datetime > de.event_datetime

AND TIMEDIFF(de2.event_datetime, de.event_datetime) <=
'00:30:00'
);
```

123 5th Avenue, Unit Apt 1895, New York, NY 18983	<del>+</del>			
123 5th Avenue, Unit Apt 1805, New York, NY 19083	location +	device_id	model_type 	OpenTime 
1225 5th Avenue, Unit Apt 1806, New York, NY 18083	123 5th Avenue, Unit Apt 1005, New York, NY 10003	4	Refrigerator	2022-08-05 07:00:00
123 5th Avenue, Unit Apt 1985, New York, NY 19803	123 5th Avenue, Unit Apt 1005, New York, NY 10003	4	Refrigerator	2022-08-10 03:00:00
123 5th Avenue, Unit Apt 1985, New York, NY 19883   4   Refrigerator   2022-89-26 80:80:80   123 5th Avenue, Unit Apt 1985, New York, NY 19883   4   Refrigerator   2022-99-16 80:80:80   123 5th Avenue, Unit Apt 1985, New York, NY 19883   4   Refrigerator   2022-99-16 80:80:80   123 5th Avenue, Unit Apt 1985, New York, NY 19883   4   Refrigerator   2022-99-26 80:80:80   123 5th Avenue, Unit Apt 1985, New York, NY 19883   4   Refrigerator   2022-99-26 97:80:80   123 5th Avenue, Unit Apt 1985, New York, NY 19883   4   Refrigerator   2022-99-26 97:80:80   123 5th Avenue, Unit Apt 1985, New York, NY 19883   4   Refrigerator   2022-99-26 97:80:80   123 5th Avenue, Unit Apt 1985, New York, NY 19883   4   Refrigerator   2022-99-26 97:80:80   123 5th Avenue, Unit Apt 1985, New York, NY 19883   4   Refrigerator   2022-99-26 97:80:80   123 5th Avenue, Unit Apt 1985, New York, NY 19883   4   Refrigerator   2022-99-26 97:80:80   123 5th Avenue, Unit Apt 1983, Jersey City, NJ 97:19   18   Refrigerator   2022-99-28 90:80:80   124 5th Avenue, Unit Apt 1983, Jersey City, NJ 97:19   19   Refrigerator   2022-99-28 90:80:80   124 5th Avenue, Unit Apt 1983, Jersey City, NJ 97:19   19   Refrigerator   2022-99-26 90:80:80   124 5th Avenue, Unit Apt 1983, Jersey City, NJ 97:19   19   Refrigerator   2022-99-26 90:80:80   124 5th Avenue, Unit Apt 1983, Jersey City, NJ 97:19   19   Refrigerator   2022-99-26 90:80:80   124 5th Avenue, Unit Apt 1983, Jersey City, NJ 97:19   19   Refrigerator   2022-99-26 90:80:80   124 5th Avenue, Unit Apt 1983, Jersey City, NJ 97:19   19   Refrigerator   2022-99-26 90:80:80   124 5th Avenue, Unit Apt 1983, Jersey City, NJ 97:19   19   Refrigerator   2022-99-26 90:80:80   124 5th Avenue, Unit Apt 1984, New York, NY 19822   15   Refrigerator   2022-99-26 90:80:80   124 5th Avenue, Unit Apt 2466, New York, NY 19822   15   Refrigerator   2022-99-26 90:80:80   124 5th Avenue, Unit Apt 2466, New York, NY 19822   15   Refrigerator   2022-99-16 90:80:80   128 5th Avenue, Unit Apt 2466, New York, NY 19822   15				
123 5th Avenue, Unit Apt 1806, New York, NY 18083   4   Refrigerator   2022-09-10 84:80:00   123 5th Avenue, Unit Apt 1806, New York, NY 18083   4   Refrigerator   2022-09-10 84:80:00   123 5th Avenue, Unit Apt 1806, New York, NY 18083   4   Refrigerator   2022-09-20 87:80:00   123 5th Avenue, Unit Apt 1806, New York, NY 18083   4   Refrigerator   2022-09-20 87:80:00   123 5th Avenue, Unit Apt 1806, New York, NY 18083   4   Refrigerator   2022-09-20 87:80:00   123 5th Avenue, Unit Apt 1806, New York, NY 18083   4   Refrigerator   2022-09-20 87:80:00   125 5th Avenue, Unit Apt 1806, New York, NY 18083   4   Refrigerator   2022-09-20 87:80:00   126 5th Avenue, Unit Apt 1806, New York, NY 18083   4   Refrigerator   2022-09-20 87:80:00   126 5th Avenue, Unit Apt 1803, Jersey City, NJ 87319   10   Refrigerator   2022-09-20 87:80:00   126 5th Avenue, Unit Apt 1803, Jersey City, NJ 87310   10   Refrigerator   2022-09-20 87:80:00   127 5th Avenue, Unit Apt 1803, Jersey City, NJ 87310   10   Refrigerator   2022-09-20 87:80:00   128 5th Avenue, Unit Apt 1803, Jersey City, NJ 87310   10   Refrigerator   2022-09-20 87:80:00   129 5th Avenue, Unit Apt 1803, Jersey City, NJ 87310   10   Refrigerator   2022-09-20 87:80:00   129 6th Avenue, Unit Apt 1803, Jersey City, NJ 87310   10   Refrigerator   2022-09-20 87:80:00   129 6th Avenue, Unit Apt 1803, Jersey City, NJ 87310   10   Refrigerator   2022-09-20 87:80:00   120 6th Avenue, Unit Apt 1803, Jersey City, NJ 87310   10   Refrigerator   2022-09-20 87:80:00   120 6th Avenue, Unit Apt 1804, New York, NY 18022   15   Refrigerator   2022-09-20 87:80:00   120 6th Avenue, Unit Apt 1804, New York, NY 18022   15   Refrigerator   2022-09-20 87:80:00   120 7th Avenue, Unit Apt 1804, New York, NY 18022   15   Refrigerator   2022-09-20 87:80:00   120 7th Avenue, Unit Apt 1804, New York, NY 18022   15   Refrigerator   2022-09-20 87:80:00   120 7th Avenue, Unit Apt 1804, New York, NY 18022   15   Refrigerator   2022-09-20 87:80:00   120 7th Avenue, Unit Apt 2804, New York, NY 18062   15				
1225 5th Avenue, Unit Apt 1805, New York, NY 18083				
1225 5th Avenue, Unit Apt 1805, New York, NY 18083				
1225 th Avenue, Unit Apt 1805, New York, NY 18083   4   Refrigerator   2022-09-26 07:08:08     1235 th Avenue, Unit Apt 1805, New York, NY 18093   4   Refrigerator   2022-09-26 07:08:08     1235 th Avenue, Unit Apt 1805, New York, NY 18093   4   Refrigerator   2022-09-36 07:08:08     1235 th Avenue, Unit Apt 1805, New York, NY 18093   4   Refrigerator   2022-09-36 07:08:08     1235 th Avenue, Unit Apt 1806, New York, NY 18092   10   Refrigerator   2022-08-86 07:09:08     1235 th Avenue, Unit Apt 1803, Jersey City, NJ 07310   10   Refrigerator   2022-08-86 07:08:08     1236 th Avenue, Unit Apt 1803, Jersey City, NJ 07310   10   Refrigerator   2022-08-86 07:08:08     1235 th Avenue, Unit Apt 1803, Jersey City, NJ 07310   10   Refrigerator   2022-08-86 07:08:08     1235 th Avenue, Unit Apt 1803, Jersey City, NJ 07310   10   Refrigerator   2022-08-96 07:08:08     1236 th Avenue, Unit Apt 1803, Jersey City, NJ 07310   10   Refrigerator   2022-08-96 07:08:08     1236 th Avenue, Unit Apt 1803, Jersey City, NJ 07310   10   Refrigerator   2022-08-96 07:08:08     1236 th Avenue, Unit Apt 2406, New York, NY 18022   15   Refrigerator   2022-08-96 07:08:08     1236 th Avenue, Unit Apt 2406, New York, NY 18092   15   Refrigerator   2022-08-96 07:08:08     1236 th Avenue, Unit Apt 2406, New York, NY 18092   15   Refrigerator   2022-08-96 07:08:08     1236 th Avenue, Unit Apt 2406, New York, NY 18092   15   Refrigerator   2022-08-96 07:08:08     1236 th Avenue, Unit Apt 2406, New York, NY 18092   15   Refrigerator   2022-08-96 07:08:08     1236 th Avenue, Unit Apt 2406, New York, NY 18092   15   Refrigerator   2022-08-96 07:08:08     1237 th Avenue, Unit Apt 2406, New York, NY 18092   15   Refrigerator   2022-08-96 07:08:08     1237 th Avenue, Unit Apt 2406, New York, NY 18092   15   Refrigerator   2022-08-96 07:08:08     1238 th Avenue, Unit Apt 2406, New York, NY 18092   15   Refrigerator   2022-08-96 07:08:08     1239 th Avenue, Unit Apt 2406, New York, NY 18092   15   Refrigerator   2022-08-96 07:08:08     1239 th Avenue				
1225 Sth Avenue, Unit Apt 1805, New York, NY 18083				
123 Sth Avenue, Unit Apt 1896, New York, NY 18083				
A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-05 07:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-25 07:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-26 07:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-05 07:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-05 07:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-05 07:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-07 08:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-08 08:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-08 08:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-08 08:08:08     A65 Washington Boulevard, Unit Apt 1304, New York, NY 10022   15   Refrigerator   2022-08-08 08:08:08     A65 Washington Boulevard, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-08 08:08:08     A65 Washington Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-08 08:08:08     A65 Washington Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-08 08:08:08     A65 Washington Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-08 08:08:08     A65 Washington Avenue, Unit Apt 2406, New York, NY 11206   15   Refrigerator   2022-08-08 08:08:08     A65 Washington Avenue, Unit Apt 2408, New York, NY 11206   15   Refrigerator   2022-08-08 08:08:08     A65 Washington Avenue, Unit Apt 2408, New York, NY 11206   17   Refrigerator   2022-08-08 08:08:08     A67 Washington Avenue, Unit Apt 2408, New York, NY 11206   17   Refrigerator   2022-08-08 08:08:08     A68 Washington Boulev				
A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-10 09:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-30 09:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-30 09:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-15 09:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-15 09:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-25 09:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-25 04:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-25 04:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-25 04:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-25 04:00:00   A65 Washington Boulevard, Unit Apt 2406, New York, NY 18002   15   Refrigerator   2022-09-26 09:00:00   A65 Washington Avenue, Unit Apt 2406, New York, NY 18002   15   Refrigerator   2022-08-15 03:00:00   A65 Washington Avenue, Unit Apt 2406, New York, NY 18002   15   Refrigerator   2022-08-09-00   A65 Washington Avenue, Unit Apt 2406, New York, NY 18002   15   Refrigerator   2022-08-09-00   A65 Washington Avenue, Unit Apt 2406, New York, NY 18002   15   Refrigerator   2022-08-09-00   A65 Washington Avenue, Unit Apt 2406, New York, NY 18002   15   Refrigerator   2022-08-09-00   A65 Washington Avenue, Unit Apt 2406, New York, NY 11206   15   Refrigerator   2022-08-09-00   A65 Washington Avenue, Unit Apt 2406, New York, NY 11206   15   Refrigerator   2022-08-09-00   A65 Washington Avenue, Unit Apt 2607, New York, NY 11206   15   Refrigerator   2022-08-09-00   A65 Washington Avenue, Unit Apt 2607, New York, NY 11206   15   Refrigerator   2022-08-09-00   A65 Washi	·			
A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-25 07:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-05 02:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-05 02:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-02 04:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-02 04:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-02 04:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-03 06:00:00   A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-08-03 06:00:00   A65 Wadison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-03 06:00:00   A56 Wadison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-03 06:00:00   A56 Wadison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-03 06:00:00   A56 Wadison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-03 06:00:00   A56 Wadison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-03 06:00:00   A56 Wadison Avenue, Unit Apt 2406, New York, NY 11206   15   Refrigerator   2022-08-03 06:00:00   A56 Wadison Avenue, Unit Apt 2406, New York, NY 11206   15   Refrigerator   2022-08-03 06:00:00   A56 Wadison Avenue, Unit Apt 2406, New York, NY 11206   15   Refrigerator   2022-08-03 06:00:00   A56 Wadison Avenue, Unit Apt 2701, New York, NY 11206   15   Refrigerator   2022-08-10 06:00:00   A56 Wadison Avenue, Unit Apt 2701, New York, NY 11206   21   Refrigerator   2022-08-10 06:00:00   A56 Wadison Avenue, Unit Apt 2701, New York, NY 11206   21   Refrigerator   2022-08-10 06:00:00   A56 Wadison Avenue, Unit Apt 2701, New York, NY 11206   21   Refrigerator   2022-08-10 06:00:00   A56 Wadison				
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465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-55 06:08:08     465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-26 04:08:08     465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-26 04:08:08     465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-26 04:08:08     465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-30 00:08:08     465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-30 00:08:08     465 Washington Boulevard, Unit Apt 1206, New York, NY 108022   15   Refrigerator   2022-09-30 00:08:08     456 Wadison Avenue, Unit Apt 2406, New York, NY 108022   15   Refrigerator   2022-09-20 01:08:08     456 Wadison Avenue, Unit Apt 2406, New York, NY 108022   15   Refrigerator   2022-09-20 01:08:08     456 Wadison Avenue, Unit Apt 2406, New York, NY 108022   15   Refrigerator   2022-09-20 01:08:08     456 Wadison Avenue, Unit Apt 2406, New York, NY 108022   15   Refrigerator   2022-09-20 01:08:08     456 Wadison Avenue, Unit Apt 2406, New York, NY 108022   15   Refrigerator   2022-09-20 01:08:08     456 Wadison Avenue, Unit Apt 2406, New York, NY 108022   15   Refrigerator   2022-09-20 01:08:08     456 Wadison Avenue, Unit Apt 2406, New York, NY 110802   15   Refrigerator   2022-09-20 01:08:08     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-30 07:08:08     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:08:08     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:08:08     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:08:08     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:08:08     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:08:0				
A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10 Refrigerator   2022-09-26 46:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10 Refrigerator   2022-09-26 46:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10 Refrigerator   2022-09-26 46:08:08     A65 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10 Refrigerator   2022-09-30 08:08:08     A65 Washington Avenue, Unit Apt 1246, New York, NY 108022   15 Refrigerator   2022-08-05 02:08:08     A56 Wadison Avenue, Unit Apt 2466, New York, NY 108022   15 Refrigerator   2022-08-15 03:08:08     A56 Wadison Avenue, Unit Apt 2466, New York, NY 108022   15 Refrigerator   2022-08-15 03:08:08     A56 Wadison Avenue, Unit Apt 12466, New York, NY 108022   15 Refrigerator   2022-08-05 02:08:08     A56 Wadison Avenue, Unit Apt 12466, New York, NY 108022   15 Refrigerator   2022-08-05 08:08:08     A56 Wadison Avenue, Unit Apt 2466, New York, NY 108022   15 Refrigerator   2022-09-08 08:08:08     A56 Wadison Avenue, Unit Apt 2466, New York, NY 108022   15 Refrigerator   2022-09-08 08:08:08     A58 Wadison Avenue, Unit Apt 2466, New York, NY 108022   15 Refrigerator   2022-09-08 08:08:08     A58 Wadison Avenue, Unit Apt 2466, New York, NY 10802   15 Refrigerator   2022-09-08 08:08:08     A58 Wadison Avenue, Unit Apt 2466, New York, NY 11266   21 Refrigerator   2022-09-08 08:08:08     A59 Park Avenue, Unit Apt 0701, New York, NY 11266   21 Refrigerator   2022-09-08 08:08:08     A59 Park Avenue, Unit Apt 0701, New York, NY 11266   21 Refrigerator   2022-09-10 08:08:08     A59 Park Avenue, Unit Apt 0701, New York, NY 11266   21 Refrigerator   2022-09-15 08:08:08     A59 Park Avenue, Unit Apt 0701, New York, NY 11266   21 Refrigerator   2022-09-01 08:08:08     A59 Park Avenue, Unit Apt 0701, New York, NY 11266   21 Refrigerator   2022-09-01 08:08:08     A59 Park Avenue, Unit Apt 0701, New York, NY 11266   21 Refrigerator   2022-09-01 08:08:08     A59 Park Avenue, Unit Apt 0701, New York, NY 11266				
465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-25 04:08:08     465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-25 04:08:08     465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310   10   Refrigerator   2022-09-36 08:08:08     465 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-05 02:08:08     465 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-15 03:08:08     465 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-15 03:08:08     465 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-15 03:08:08     465 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-05 08:08:08     465 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-05 08:08:08     465 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-06 03:08:08     465 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-08 03:08:08     465 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-03 03:08:08     465 Madison Avenue, Unit Apt 2406, New York, NY 11206   21   Refrigerator   2022-08-03 03:08:08     478 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:08:08     478 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:08:08     478 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:08:08     479 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:08:08     479 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-10 03:08:08     479 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-10 03:08:08     470 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-05 04:08:08     470 Park Avenue, Unit Apt 0701, New Yo				
465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310			_	
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456 Madison Avenue, Unit Apt 2486, New York, NY 10022   15   Refrigerator   2022-08-05 02:00:00     456 Madison Avenue, Unit Apt 2486, New York, NY 10022   15   Refrigerator   2022-08-16 03:00:00     456 Madison Avenue, Unit Apt 2486, New York, NY 10022   15   Refrigerator   2022-08-20 01:00:00     456 Madison Avenue, Unit Apt 2486, New York, NY 10022   15   Refrigerator   2022-09-05 00:00:00     456 Madison Avenue, Unit Apt 2486, New York, NY 10022   15   Refrigerator   2022-09-05 00:00:00     456 Madison Avenue, Unit Apt 2486, New York, NY 10022   15   Refrigerator   2022-09-05 00:00:00     456 Madison Avenue, Unit Apt 2486, New York, NY 10022   15   Refrigerator   2022-09-05 00:00:00     456 Madison Avenue, Unit Apt 2486, New York, NY 10022   15   Refrigerator   2022-09-06 03:00:00     456 Madison Avenue, Unit Apt 2486, New York, NY 10022   15   Refrigerator   2022-09-05 00:00:00     458 Madison Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-30 07:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 01:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 06:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 06:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-16 06:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-16 06:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-05 04:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-05 04:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-05 04:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2	•			
456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-10 03:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-20 01:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-20 01:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-09-10 05:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-09-10 05:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-09-20 03:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-09-20 03:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-09-20 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-05 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-16 07:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09				
456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-15 03:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-08-20 08:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-09-05 00:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-09-05 00:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-09-05 00:00:00     456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-09-08 00:00:00     450 Madison Avenue, Unit Apt 0701, New York, NY 10022   15   Refrigerator   2022-09-09 00:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-20 01:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-20 01:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 05:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 05:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 05:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 05:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 05:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 06:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 06:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 06:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 00:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20				
456 Madison Avenue, Unit Apt 2406, New York, NY 10022				
456 Madison Avenue, Unit Apt 2406, New York, NY 10022				
456 Madison Avenue, Unit Apt 2406, New York, NY 10022				
456 Madison Avenue, Unit Apt 2406, New York, NY 10022   15   Refrigerator   2022-09-30 03:00:00     789 Park Avenue, Unit Apt 2406, New York, NY 11206   21   Refrigerator   2022-09-30 07:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 01:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-08-10 01:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-10 03:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-25 04:00:00     789 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-25 04:00:00     780 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-25 04:00:00     780 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-25 04:00:00     780 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-25 04:00:00     780 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 06:00:00     780 Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20-00:00:00:00     780 Park Avenue, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-80 01:00:00     780 Park Avenue, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-10 00:00:00     780 Park Avenue, Unit Apt 2003, New York, NY 11249   32   Refrigerator   2022-09-10 00:00:00     780 Park Avenue, Unit Apt 2003, New York, NY 11249   32   Refrigerator   2022-09-10 00:00:00				
456 Madison Avenue, Unit Apt 0701, New York, NY 11206   21 Refrigerator   2022-08-10 03:00:00   789 Park Avenue, Unit Apt 0701, New York, NY 11206   21 Refrigerator   2022-08-10 03:00:00   789 Park Avenue, Unit Apt 0701, New York, NY 11206   21 Refrigerator   2022-08-10 03:00:00   789 Park Avenue, Unit Apt 0701, New York, NY 11206   21 Refrigerator   2022-08-20 07:00:00   789 Park Avenue, Unit Apt 0701, New York, NY 11206   21 Refrigerator   2022-08-20 07:00:00   789 Park Avenue, Unit Apt 0701, New York, NY 11206   21 Refrigerator   2022-08-20 07:00:00   789 Park Avenue, Unit Apt 0701, New York, NY 11206   21 Refrigerator   2022-09-10 03:00:00   789 Park Avenue, Unit Apt 0701, New York, NY 11206   21 Refrigerator   2022-09-10 03:00:00   789 Park Avenue, Unit Apt 0701, New York, NY 11206   21 Refrigerator   2022-09-20 02:00:00   789 Park Avenue, Unit Apt 0701, New York, NY 11206   21 Refrigerator   2022-09-20 04:00:00   25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26 Refrigerator   2022-09-30 06:00:00   25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26 Refrigerator   2022-08-10 04:00:00   25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26 Refrigerator   2022-08-10 04:00:00   25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26 Refrigerator   2022-08-10 04:00:00   25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26 Refrigerator   2022-08-10 04:00:00   25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26 Refrigerator   2022-08-08 03:00:00   25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26 Refrigerator   2022-08-08 03:00:00   25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26 Refrigerator   2022-09-08 03:00:00   25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26 Refrigerator   2022-09-08 03:00:00   25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26 Refrigerator   2022-09-08 03:00:00   26 Christop				
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789   Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-10 03:00:00   789   Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00   789   Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00   789   Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00   789   Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-20 02:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-05 01:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-10   04:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-15   00:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-20   03:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-20   03:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-05   04:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   26   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-15   06:00:00   27   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-15   06:00:00   27   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-15   06:00:00   27   Christopher Columbus Drive, Unit Apt 3403, Jerse				
789   Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-15 05:00:00   789   Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-25 06:00:00   789   Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-25 06:00:00   789   Park Avenue, Unit Apt 0701, New York, NY 11206   21   Refrigerator   2022-09-30 06:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-05 01:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-16 00:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-16 00:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-08-16 00:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-20 03:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   25   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   26   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-10   06:00:00   27   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-09-10   06:00:00   202   Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   26   Refrigerator   2022-09-09   06:00:00   202   Christopher Columbus Drive, Unit				
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4. Calculate the total energy cost for each service location during August 2022, considering the hourly changing energy prices based on zip code.

```
SELECT
   CONCAT (
        1.location street num,
        '',
        1.location street name,
        ', Unit ',
        1.location unit number,
        ', ',
        1.location city,
        1, 1,
        1.location state,
        1.location zipcode
    ) AS location,
    dr.location id,
    SUM(ep.price * de.event number) as monthlyCostSum
FROM
    device event de
    JOIN device registered dr ON de.device id = dr.device id
    JOIN location 1 ON dr.location id = 1.location id
    JOIN energy price ep ON ep.zipcode = 1.location zipcode
    AND ep.hour of day = HOUR (de.event datetime)
WHERE
    de.event label = 'EnergyReport'
    AND de.event datetime BETWEEN "2022-08-01"
    AND "2022-08-31"
GROUP BY
    dr.location id;
```

location	location_id	monthlyCostSum
	1	8.779507985096869
465 Washington Boulevard, Unit Apt 1303, Jersey City, NJ 07310	2	6.077616970085041
456 Madison Avenue, Unit Apt 2406, New York, NY 10022	3	10.043581828314661
789 Park Avenue, Unit Apt 0701, New York, NY 11206	4	7.505406670015111
25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302	5	7.145635752277388
101 Broadway, Unit Apt 2803, New York, NY 11249	6	6.854043528100691
202 Wall Street, Unit Apt 1502s, New York, NY 10005	7	8.881512977744334

5. For each service location, compute its total energy consumption during August 2022, as a percentage of the average total energy consumption during the same time of other service locations that have a similar square footage (meaning, at most 5% higher or lower square footage). Thus, you would output 150% if a service location with 1000 sqft had 50% higher energy consumption than the average of other service locations that have between 950 and 1050 sqft.

```
SUM(ep.price * de.event_number) as monthlyCostSum,
        1.square feet
    FROM
        device event de
        JOIN device registered dr ON de.device id = dr.device id
        JOIN location 1 ON dr.location id = 1.location id
        JOIN energy price ep ON ep.zipcode = 1.location zipcode
        AND ep.hour_of_day = HOUR(de.event_datetime)
    WHERE
        de.event label = 'EnergyReport'
        AND de.event datetime BETWEEN "2022-08-01"
        AND "2022-08-31"
    GROUP BY
        dr.location id
),
AvgCosts AS (
    SELECT
        El.location id,
        AVG (E2.monthlyCostSum) AS avgSimilarSquareFeetCost
    FROM
        EachCosts E1
        JOIN EachCosts E2 ON E1.location id != E2.location id
        AND E2.square feet BETWEEN E1.square feet * 0.95
        AND El.square_feet * 1.05
    GROUP BY
       E1.location id
)
SELECT
   e.location id,
    e.monthlyCostSum,
    a.avgSimilarSquareFeetCost,
    (e.monthlyCostSum / a.avqSimilarSquareFeetCost) * 100 AS
percentageCost
FROM
   EachCosts e
    JOIN AvgCosts a ON e.location id = a.location id;
```

location_id	monthlyCostSum	avgSimilarSquareFeetCost	percentageCost
1	8.779507985096869	7.145635752277388	122.86531652972583
2	6.077616970085041	7.505406670015111	80.97651782635256
3	10.043581828314661	7.867778252922513	127.6546123371479
4	7.505406670015111	6.077616970085041	123.49259104280294
5	7.145635752277388	8.779507985096869	81.38993397360123
6	6.854043528100691	9.462547403029497	72.43338644630012
7	8.881512977744334	8.448812678207677	105.12143322401664

6. Identify service location(s) that had the highest percentage increase in energy consumption between August and September of 2022.

```
WITH AugCosts AS (
    SELECT
        CONCAT (
```

```
1.location street num,
            ''',
            1.location_street_name,
            ', Unit ',
            1.location unit number,
            1, 1,
            1.location city,
            ', ',
            1.location state,
            1.location zipcode
        ) AS location,
        dr.location id,
        SUM(ep.price * de.event number) as monthlyCostSum
    FROM
        device event de
        JOIN device registered dr ON de.device id = dr.device id
        JOIN location 1 ON dr.location id = 1.location id
        JOIN energy_price ep ON ep.zipcode = 1.location zipcode
        AND ep.hour of day = HOUR(de.event datetime)
    WHERE
        de.event label = 'EnergyReport'
        AND de.event datetime BETWEEN "2022-08-01"
        AND "2022-08-31"
    GROUP BY
       dr.location_id
),
SepCosts AS (
   SELECT
        CONCAT (
            1.location street num,
            1.location street name,
            ', Unit ',
            1.location unit number,
            1, 1,
            1.location city,
            ', ',
            1.location_state,
            1.location zipcode
        ) AS location,
        dr.location id,
        SUM(ep.price * de.event number) as monthlyCostSum
    FROM
        device event de
        JOIN device registered dr ON de.device id = dr.device id
        JOIN location 1 ON dr.location id = 1.location id
        JOIN energy_price ep ON ep.zipcode = 1.location zipcode
        AND ep.hour of day = HOUR (de.event datetime)
    WHERE
        de.event_label = 'EnergyReport'
        AND de.event datetime BETWEEN "2022-09-01"
        AND "2022-09-30"
    GROUP BY
```

```
dr.location_id
)
SELECT
    a.location,
    a.location_id,
    (
        (s.monthlyCostSum - a.monthlyCostSum) / a.monthlyCostSum
    ) * 100 AS percentage_increase
FROM
    AugCosts a
    JOIN SepCosts s ON a.location_id = s.location_id
ORDER BY
    percentage_increase DESC
LIMIT
    1;
```

25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302   5   -15.689982043561837	location	location_id	percentage_increase
	25 Christopher Columbus Drive, Unit Apt 3403, Jersey City, NJ 07302	5	-15.689982043561837

<sup>1</sup> row in set (0.13 sec)