Accommodation Finder

Project description

The goal of this project is to build a database that will aid students looking for both temporary and permanent accommodation. Users/Students (hosts) can publish their apartments with the dates it will be available, and students can search for rooms based on their preferences, make reservations for temporary accommodation, and contact with the host for permanent accommodation.

Brief Overview

Hosts will be able to offer their currently rented apartments for permanent housing and short-term housing with their preferences for housemates, apartment images, a video tour, move-in dates, house rules, nearby utilities stores, and method of commuting to school. By using filters based on preferences for room type, hall place, members of the house with matching courses, and university, users will be able to locate permanent or temporary accommodation. Users will be able to view information on members, such as the courses they are enrolled in, their states, their languages, and their contact information, subject to host approval. Users looking for lodging are divided into free and premium subscription plans, which only allow them to access the contact details of the property's host.

DB Functionalities

1.Host will be able to host their accommodations with move-in dates, rent for the person, number of open spots, photos, an apartment video tour, address, room spot type, apartment info (bed and bath information), laundry access, and preferences for house members (state, food, language, course, university, and no smoking/alcohol).
2. Users can focus their search for rooms based on attributes including location, dates of stay, and preferences for both temporary and permanent postings.
3. Based on the user's recorded choices and available dates, accommodations will be displayed.
4. Users will be able to book and cancel temporary accommodation as well as pay for their stay.
5. For permanent accommodation, users will have access to the host's contact information, but there will be time and property contact limit restrictions depending on the user subscription plan.
6. Users can bookmark accommodation listings to view at a later time.
7. Users will be notified of new listings if the property matches their criteria.

8. Reviews of temporary accommodations can include ratings and remarks
9. Rent will be categorized based on the spot type, sharing, private rooms with brokerage, deposit if applicable
10. Members of the house can be either user or if signup as user which will be matched based on email and contact information
11. Students looking for temporary and permanent can also post their requests

Entities Overview

1. Each listing will have information related to accommodation type, rent, room type(bed room, shared, private or hall spot), number of guests it can accommodate, vacancies, price, address, photos, amenities and rating and reviews (optional), cancellation policy (temporary accommodation), gender preference, contact information, listing type, house rules

2. Users can be of two types either - host who will post accommodations and user who can view and book accommodations

3. Users will have first name, last name, email id, mobile number, University, course ,valid proof (admit letter, i20), profile picture (optional).

4. Temporary accommodation bookings will have booking_id, checkin and checkout dates, amount paid, cancelable, address and contact information

5. Wishlist to bookmark listings with listing id

6. User preference with pincode, radius, university, course, room type, rent range and other amenities

7. Notifications with accommodation listing info when new accommodations which are matching user preference - notification id, read.

8. Number of properties contacted for permanent accommodation by user

9. room members (non user) which will be added by accommodation host - university, course, state, language.

10. Accommodation request post - userid, postingid, contact, preferences

Database usecases

https://docs.google.com/document/d/1Oj2fzd9U7lhVq52BtaAzpWVz1b1zCMz5FAPm917ADdE/edit

Data gathering

Dataset - Real World data for Temporary and permanent accommodation csv file gathered from whatsapp groups, google forms and scrapped from websites for permanent accommodations

Datasets gathered as csv files from whatsapp are imported as pandas dataframe to clean and validate

permanent and temporary accommodations dataframe shape and info are displayed for data types

Rent column in data frame are cleaned by removing dollar symbols and trailing spaces and made as type int for both temporary and permanent accommodations

Missing values for rent are filled with mean value from the data frame

Missing values for str are replaced with empty strings

After all data is cleaned all dataframe columns are casted into respective data types

Data visualization

Data is visualized with matplotlib library on four use cases

Temporary accommodation use case

1. Number of temporary accommodation based on locality with histograms

2. Accommodation availability based on gender using pie chart

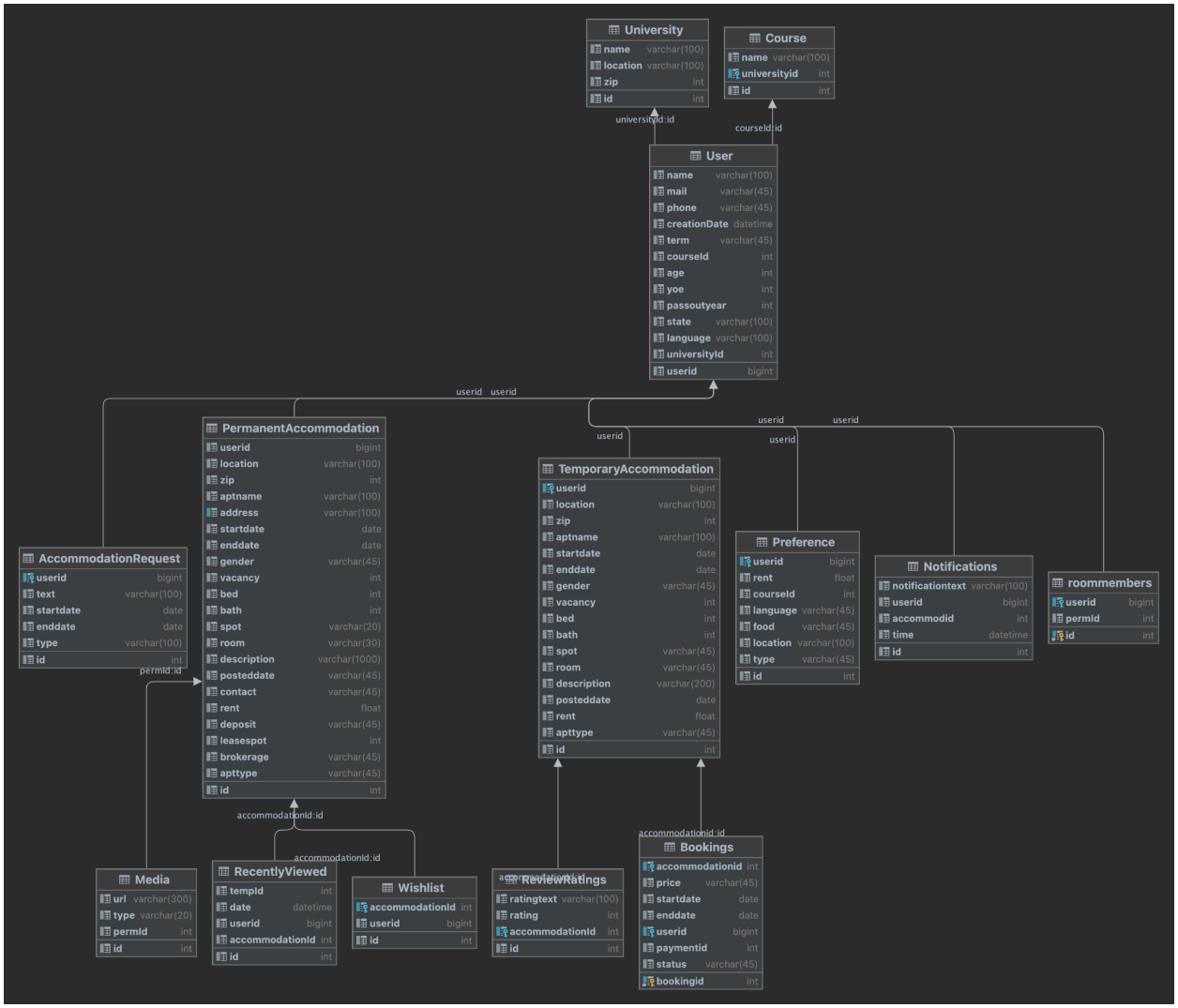
3. Accommodation availability based on spot type using pie chart

4. Scatter plot to visualize the rent range distribution across localities

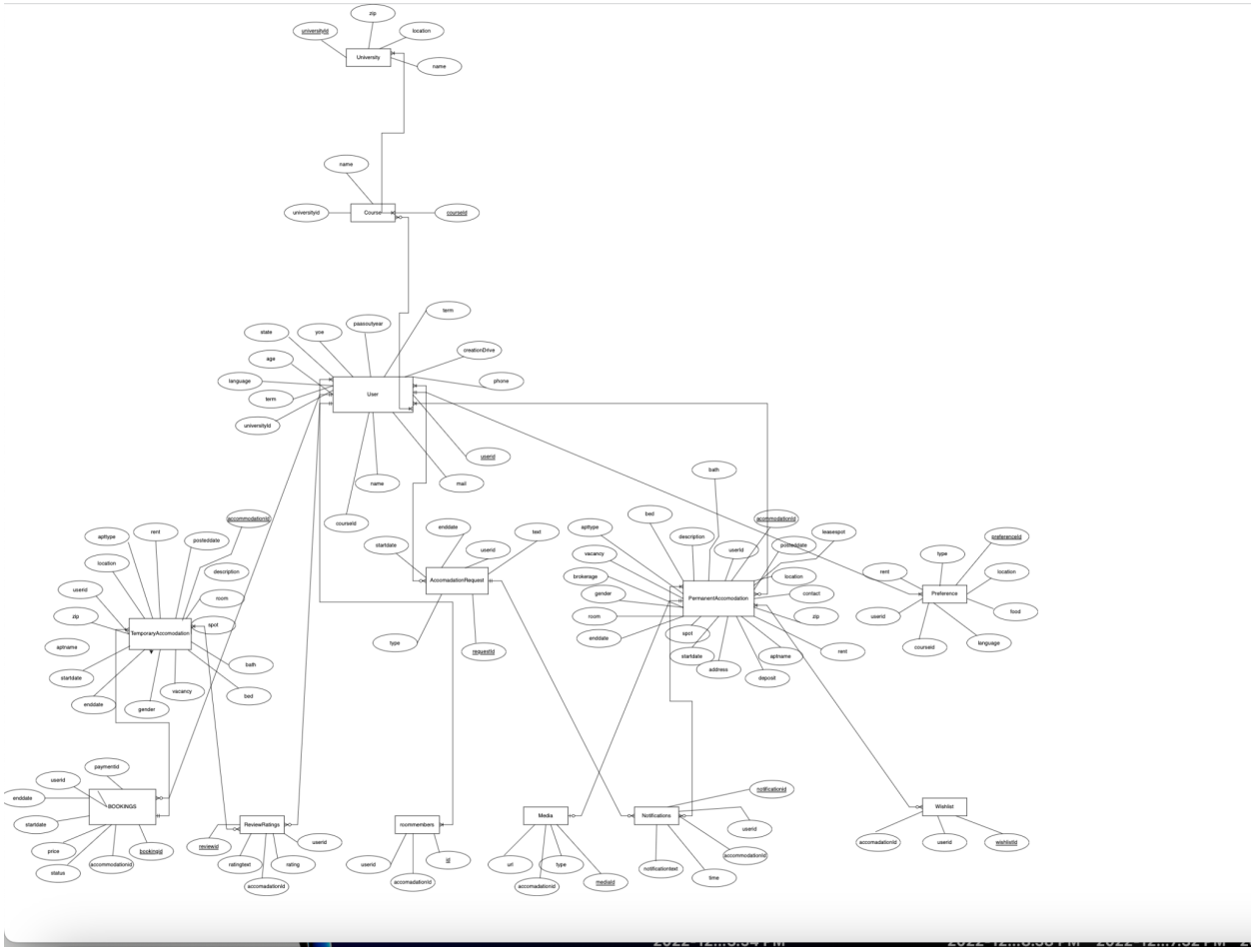
Importing data to database

Data is inserted to respective tables from their dataframes using sqlalchemy

Database diagram Conceptual Model



ER Diagram



SQL queries

```
-- 1. List username and contact information of users who posted temporary
accommodation with rent less than 20
```

```
select u.contact, u.name, ta.* from user as u inner join temporaryaccommodation as ta
on ta.number = u.contact where ta.rent < 20;

-- 2. List address of both permanent and temporary accommodations posted by user
```

```sql
SELECT tem.address
FROM (select address from temporaryaccommodation  where number = 9452094012
UNION ALL
select address from permanentaccommodation where contact = 9452094012) as tem group by
address;


-- 3. List popular localities of both

SELECT tem.locality, count(*) as count
FROM (select locality from temporaryaccommodation
UNION ALL
select location from permanentaccommodation) as tem group by locality order by count
DESC;

-- 4. Get contact accomodations with 2 bhk and 1 bath with private room with rent
below 800 for female

select pa.contact, u.name from permanentaccommodation as pa inner join user as u on
u.contact = pa.contact where gender = 'GIRL' and bed = 2 and bath = 1 and rent < 800;


-- 5. List permanent accommodations for girl with starting date between dec 15 and dec
31 with rent less than 600 for shared room

select * from permanentaccommodation where gender = 'GIRL' and rent < 600 and start
BETWEEN '2022-12-15' AND '2022-12-31' and roomtype = 'SHARED'

-- 6. List names the users who posted temporary accomodation for female

select usr.name from user usr inner join temporaryaccommodation tmp on usr.contact =
tmp.number where tmp.gender='GIRL';

-- 7. List contact of user from permanent accommodations with rent greater than 500

select pac.contact, usr.name from user usr inner join permanentaccommodation pac on
usr.contact = pac.contact where pac.rent > 500;


-- 8. List the id with contact no in permanent accommodation with start date after
December
```

```sql
select pac.contact, pac.address from user usr inner join permanentaccommodation pac on
usr.contact = pac.contact where pac.start >2022-12-31;


-- 9. List the names in permanent accommodation with 1 bed type

select pac.contact, pac.address from user usr inner join permanentaccommodation pac on
usr.contact = pac.contact where pac.bed=1;

-- 10. List the names of the temporary accommodation with descriptions
select usr.name from user usr inner join temporaryaccommodation tmp on usr.contact =
tmp.number where tmp.description is not null;
```

```sql
-- 1. List username and contact information of users who posted temporary
accommodation with rent less than 20
create view cheapaccommodations as select u.name ,ta.* from User as u inner join
Temporaryaccommodation as ta
on ta.userid = u.userid where ta.rent < 20;

select * from cheapaccommodations;

-- select u.contact, u.name, ta.* from user as u inner join temporaryaccommodation as
ta
-- on ta.number = u.contact where ta.rent < 20;

-- 2. List address of both permanent and temporary accommodations posted by user

create view userposts as SELECT tem.address
FROM (select address from Temporaryaccommodation  where userid = 9452094012
UNION ALL
select address from Permanentaccommodation where userid = 9452094012) as tem group by
address;

select * from userposts;

-- SELECT tem.address
-- FROM (select address from temporaryaccommodation  where number = 9452094012
-- UNION ALL
-- select address from permanentaccommodation where contact = 9452094012) as tem group
by address;
```

```sql
-- 3. List popular localities of both

create view popularlocalities as SELECT tem.location, count(*) as count
FROM (select location from temporaryaccommodation
UNION ALL
select location from permanentaccommodation) as tem group by location order by count
DESC;

select * from popularlocalities;

-- SELECT tem.locality, count(*) as count
-- FROM (select locality from temporaryaccommodation
-- UNION ALL
-- select location from permanentaccommodation) as tem group by locality order by
count DESC;

-- 4. Get contact accomodations with 2 bhk and 1 bath with private room with rent
below 800 for female

create view contactlist as select pa.userid, u.name from permanentaccommodation as pa
inner join user as u on u.userid = pa.userid where gender = 'GIRL' and bed = 2 and
bath = 1 and rent < 800;

select * from contactlist;

-- select pa.contact, u.name from permanentaccommodation as pa inner join user as u on
u.contact = pa.contact where gender = 'GIRL' and bed = 2 and bath = 1 and rent < 800;


-- 5. List permanent accommodations for girl with starting date between dec 15 and dec
31 with rent less than 600 for shared room

create view decemberseason_vacacies as select * from permanentaccommodation where
gender = 'GIRL' and rent < 600 and startdate BETWEEN '2022-12-15' AND '2022-12-31' and
room = 'SHARED'

select * from decemberseason_vacacies;

-- 6. Select all northeastern university students
```

```sql
create view northeasternstudens as select * from user where universityId= 1;

select * from northeasternstudens;

-- select * from permanentaccommodation where gender = 'GIRL' and rent < 600 and start
BETWEEN '2022-12-15' AND '2022-12-31' and roomtype = 'SHARED'

-- 6. List names the users who posted temporary accomodation for female
CREATE VIEW girl _temp_acc as
select usr.name from user usr inner join temporaryaccommodation tmp on usr.userid =
tmp.userid where tmp.gender='GIRL';

--select usr.name from user usr inner join temporaryaccommodation tmp on usr.contact =
tmp.number where tmp.gender='GIRL';

-- 7. List contact of user from permanent accommodations with rent greater than 500
CREATE VIEW per_acc_rent500 as
select pac.contact, usr.name from user usr inner join permanentaccommodation pac on
usr.userid = pac.userid where pac.rent > 500;

--select pac.contact, usr.name from user usr inner join permanentaccommodation pac on
usr.contact = pac.contact where pac.rent > 500;


-- 8. List the id with contact no in permanent accommodation with start date after
December
CREATE VIEW per_acc_startdate as select pac.contact, pac.address from user usr inner
join permanentaccommodation pac on usr.userid = pac.userid where pac.start >2022-12-31
--select pac.contact, pac.address from user usr inner join permanentaccommodation pac
on usr.contact = pac.contact where pac.start >2022-12-31;


-- 9. List the names in permanent accommodation with 1 bed type
CREATE VIEW per_acc_1bed as
select pac.contact, pac.address from user usr inner join permanentaccommodation pac on
usr.userid = pac.userid where pac.bed=1;
--select pac.contact, pac.address from user usr inner join permanentaccommodation pac
on usr.contact = pac.contact where pac.bed=1;

-- 10. List the names of the temporary accommodation with descriptions
```

```
CREATE VIEW temp_acc_desc as select usr.name from user usr inner join
temporaryaccommodation tmp on usr.userid = tmp.userid where tmp.description is not
null;
--select usr.name from user usr inner join temporaryaccommodation tmp on usr.contact =
tmp.number where tmp.description is not null;
```

SQL views

1. List top temporary accommodations

```
create view toptempaccommodations as select u.name,
u.userid, t.location, t.rent, r.rating, r.ratingtext from
temporaryaccommodation as t
inner join user as u on t.userid = u.userid
inner join reviewratings as r on
t.accommodationid = r.accommodationid order by r.rating
desc;
```

name	userid	location	rent	rating	ratingtext
Hemanthhhh	8573905572	Brookline	20	5	Awesome
Tanvi	8574457171	Harrison Avenue	20	5	Awesome
Kimaya	18578698800	Boylston	30	4	Good
Kimaya	18578698800	Boylston	30	4	Good
Prats	9967202113	Tremont	20	4	Good
Dhairya	8574379033	Tremont	20	4	Good
	9654350202	Downtown	25	4	Good
Nainil	16178607502	Park Drive	22	4	Good
Shreya	7252547495	Tremont	21.2188	4	Good
Hemanthhhh	8573905572	Brookline	20	3	Good
	9654350202	Downtown	25	3	Average
Kim	6178186131	Tremont	20	3	Good
Kimaya	18578698800	Boylston	30	2	Bad
Shaila	8573135613	Boylston	21.2188	2	Bad

2. List accommodations posted by information system students

```
create view informationsystemAccommodation as select
u.userid, u.name as username, c.name as coursename, un.name
as universityname, p.location, p.rent from
permanentaccommodation as p
inner join user as u on p.userid = u.userid
inner join course as c on u.courseId = c.courseId
inner join university as un on un.universityid =
u.universityId
where c.courseId = 1 and p.rent < 600;
```

userid	username	coursename	universityname	location
18573951538	Akilesh	MS Information Systems	Northeastern university	75 St Alphonsus Street Boston,MA 0…
18573816342	Manaswini	MS Information Systems	Northeastern university	
18578320313	Dharsan K	MS Information Systems	Northeastern university	Parker Street, Mission Hill
917989463259	Kavya	MS Information Systems	Northeastern university	JVue at LMA Apartments, 75 St. Alp…
18573768587	Sharmili	MS Information Systems	Northeastern university	142 D Northampton Street Boston- M…
919870277303	Deep	MS Information Systems	Northeastern university	
18577570787	Meet	MS Information Systems	Northeastern university	Mission Main (17 Turquoise Way)
16179925787	Dipika	MS Information Systems	Northeastern university	883 Huntington, Boston starting JAN…
16179717378	Tarun	MS Information Systems	Northeastern university	
18572748101	Abishek	MS Information Systems	Northeastern university	
16178209583	Nithya	MS Information Systems	Northeastern university	1175 BOYlston Street, Boston
18577469893	Varun	MS Information Systems	Northeastern university	3270 Washington st, Jamaica plain.
16177089627	Rudhra J…	MS Information Systems	Northeastern university	299 Dudley st., Boston, MA
8779522391	Divya Suri	MS Information Systems	Northeastern university	65th Walk Hill Street, Jamaica Plain

3. Top accommodations saved by user

```
create view toplikedlocations as select p.address,
w.accommodationId, count(w.accommodationId) as count from
permanentaccommodation as p inner join wishlist as w
on p.accommodationId = w.accommodationId group by
w.accommodationId;
```

address	accommodationid	count
Mission Hill	0	6
	3	2
Chestnut Hill	4	2
Mission Hill	5	2
Park Drive	8	2
Tremont	9	2
Northampton Street	10	2
Shawmut Ave	11	2
Tremont	12	2
BOYlston Street	13	2

4. Cheap accommodations

```
create view cheapaccommodations as select u.name ,ta.* from
User as u inner join Temporaryaccommodation as ta
on ta.userid = u.userid where ta.rent < 20;
```

5. Popular localities

```
create view popularlocalities as SELECT tem.location,
count(*) as count FROM (select location from
temporaryaccommodation UNION ALL select location from
permanentaccommodation) as tem group by location order by
count DESC; select * from popularlocalities;
```

location	count
Tremont	21
	13
JVue at LMA Apartments, 75 St. Alph…	8
Boylston	6
Brookline	3
The Longwood Apartments, 1575 Tre…	2
Downtown	2
3270 Washington st, Jamaica plain.	2
JVue at LMA Apartments, 75 St. Alph…	2
Mission Hill	2
Germain street	2
Dudley street	1
Jamaica Plain	1
Medford	1
Huntington Avenue	1

SQL Index for Performance metrics

Before creating Indexes


```
{
  "query_block": {
    "select_id": 1,
    "cost_info": {
      "query_cost": "7.10"
    },
    "table": {
      "table_name": "PermanentAccommodation",
      "access_type": "ALL",
      "rows_examined_per_scan": 61,
      "rows_produced_per_join": 6,
      "filtered": "10.00",
      "cost_info": {
        "read_cost": "6.49",
        "eval_cost": "0.61",
        "prefix_cost": "7.10",
```

```
        "data_read_per_join": "38K"
      },
      "used_columns": [
        "accommodationId",
        "userid",
        "location",
        "zip",
        "aptname",
        "address",
        "startdate",
        "enddate",
        "gender",
        "vacancy",
        "bed",
        "bath",
        "spot",
        "room",
        "description",
        "posteddate",
        "contact",
        "rent",
        "deposit",
        "leasespot",
        "brokerage",
        "apttype"
      ],
      "attached_condition":
"(`accommodationdatabase`.`permanentaccommodation`.`userid` =
18573951538)"
    }
  }
}
```


After Index creation query cost

```
{
  "query_block": {
    "select_id": 1,
    "cost_info": {
      "query_cost": "0.35"
    },
    "table": {
      "table_name": "PermanentAccommodation",
      "access_type": "ref",
      "possible_keys": [
        "idx_accommodation_userId"
      ],
      "key": "idx_accommodation_userId",
      "used_key_parts": [
        "userid"
      ],
      "key_length": "9",
      "ref": [
        "const"
      ],
      "rows_examined_per_scan": 1,
      "rows_produced_per_join": 1,
      "filtered": "100.00",
      "cost_info": {
        "read_cost": "0.25",
        "eval_cost": "0.10",
        "prefix_cost": "0.35",
        "data_read_per_join": "6K"
      },
      "used_columns": [
        "accommodationId",
        "userid",
        "location",
        "zip",
        "aptname",
        "address",
        "startdate",
        "enddate",
        "gender",
```

```
        "vacancy",
        "bed",
        "bath",
        "spot",
        "room",
        "description",
        "posteddate",
        "contact",
        "rent",
        "deposit",
        "leasespot",
        "brokerage",
        "apttype"
      ]
    }
  }
}
```

SQL scheduler queries

```
-- Registers event which check in an interval of 1 hour and makes the
accomomodation record as expired when

SHOW PROCESSLIST;

SET GLOBAL event_scheduler = ON;

CREATE EVENT accommodationExpiry
ON SCHEDULE EVERY 1 MINUTE
STARTS CURRENT_TIMESTAMP
DO
UPDATE temporaryaccommodation
SET isexpired = true
WHERE enddate < NOW();


CREATE EVENT accommodationExpiryPermanent
ON SCHEDULE EVERY 1 MINUTE
STARTS CURRENT_TIMESTAMP
```

```
DO
UPDATE permanentaccommodation
SET isexpired = true
WHERE enddate < NOW();
```

SQL Trigger and Stored Procedure

```
-- Trigger for send notifications to user when new accommodation inserted to database
matches their preference which calls the stored procedure for creating notification in
the notification table


DROP TRIGGER IF EXISTS `accommodationDatabase`.`PermanentAccommodation_AFTER_INSERT`;

DELIMITER $$
USE `accommodationDatabase`$$
CREATE DEFINER = CURRENT_USER TRIGGER
`accommodationDatabase`.`PermanentAccommodation_AFTER_INSERT` AFTER INSERT ON
`PermanentAccommodation` FOR EACH ROW
BEGIN
   call accommodationdatabase.notifyusers(NEW.accommodationId, NEW.rent);
END$$
DELIMITER ;



CREATE DEFINER=`root`@`localhost` PROCEDURE `notifyusers`(accommodationIdparam int,
rentparam float)
BEGIN
   INSERT INTO Notifications (notificationtext, userid, accommodationId, time)
   SELECT "Accommodation posted", userid, accommodationIdparam, now() FROM Preference
   WHERE rentparam < rent;
END
```

Tables

1. **Bookings table**

location	count
Tremont	21
	13
JVue at LMA Apartments, 75 St. Alph…	8
Boylston	6
Brookline	3
The Longwood Apartments, 1575 Tre…	2
Downtown	2
3270 Washington st, Jamaica plain.	2
JVue at LMA Apartments, 75 St. Alph…	2
Mission Hill	2
Germain street	2
Dudley street	1
Jamaica Plain	1
Medford	1
Huntington Avenue	1

2. Course table

courseId	name	universityid
2	MS Data Analytics	1
3	MS Software Engineering S...	1
4	MS Engineering Management	1
5	MS CPS	1
6	MS CS	1
7	MS Cyber Securtiy	1
8	MS Data science	1
10	MS Information Systems	2
11	MS Data Analytics	2
12	MS Software Engineering S...	2
13	MS Engineering Management	2
14	MS CS	2
15	MS Cyber Securtiy	2
16	MS Data science	2

3. Media

mediaId	url	type	accommodationId
16	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	9
17	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	12
18	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	16
19	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	18
20	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	25
21	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	26
22	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	35
23	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	43
24	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	45
25	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	47
26	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	53
27	https://images1.apartments.com/i2/U81sXjuqbtJENrcIeQ8Cg_YKV2t3lVe5AXOK…	permanent	56
31	https://images1.apartments.com/i2/mH_grrl7oPHnr9r36OKln3s-xtj743eqWtGhvx…	permanent	50
32	https://images1.apartments.com/i2/mH_grrl7oPHnr9r36OKln3s-xtj743eqWtGhvx…	permanent	51

4. Notifications

notificationId	notificationtext	userid	accommodationId	time
1	test notify	2	3	2022-12-14 12:43:27
2	test notify	2	3	2022-12-14 12:44:50
3	Accommodation posted	5	4	2022-12-14 16:21:03
4	Accommodation posted	3109854728	5	2022-12-14 16:22:05
5	Accommodation posted	3109854728	6	2022-12-14 16:42:17
6	Accommodation posted	3109854728	6	2022-12-14 16:45:15
7	Accommodation posted	3109854728	100	2022-12-14 16:46:18

5. Permanent accommodation

accommodationId	userid	location	zip	aptname	address
1	16092556159	73 Park Drive, MA 02215	2115		Park Drive
2	18573951538	75 St Alphonsus Street Boston,MA 0…	2115		Alphonsus Street
3	18573816342		2115		
4	18573767895	92 Algonquin Rd, Chestnut Hill, MA 0…	2115		Chestnut Hill
5	18578320313	Parker Street, Mission Hill	2120		Mission Hill
6	18578917350	55 Park Drive.	2115		Park Drive
7	18576892342		2115		
8	18578691951	#30, 235 Park Drive.	2115		Park Drive
9	917989463259	JVue at LMA Apartments, 75 St. Alp…	2120		Tremont
10	18573768587	142 D Northampton Street Boston- M…	2115		Northampton S…
11	16173090695	608 Shawmut Ave Apt 1	2115		Shawmut Ave
12	18573761604	JVue at LMA Apartments, 75 St. Alph…	2120		Tremont
13	18578005907	BOYlston Street	2115		BOYlston Street
14	918072616973		2115		
15	919870277303		2115		

6. Preference

prefereceId	userid	rent	courseId	language	food	location
1	3109854728	600	1	tamil	veg	Huntington

7. Rating and rating text

reviewId	ratingtext	rating	accommodationId	userid
1	Good	4	0	3109854728
2	Good	4	0	3109854728
3	Bad	2	0	3109854728
4	Good	3	1	3109854728
5	Awesome	5	1	3109854728
6	Bad	1	1	3109854728
7	Good	4	2	3109854728
8	Good	4	3	3109854728
9	Average	3	4	3109854728
10	Good	4	5	3109854728
11	Good	4	10	5086306323
12	Bad	2	11	5086306323
13	Good	3	12	6176029291
14	Awesome	5	14	6177174118

8. Temporary accommodation

accommodationId	userid	location	zip	aptname	address	startdate
0	18578698800	Boylston	2115		1203 BOYlston Street	2022-12-31
1	8573905572	Brookline	2115		13 tabor pl Brookline	2022-12-27
2	9967202113	Tremont	2115		1575 Tremont Street, The Longwood	2022-12-11
3	8574379033	Tremont	2115		J Vue Apartments, 75 St Alphonsus...	2022-12-20
4	9654350202	Downtown	2115		Downtown Crossing	2022-12-06
5	9654350202	Downtown	2115		Downtown Crossing	2022-12-19
6	18572149195	Northampton	2115		101 Northampton Street,02118,MA.	2022-12-06
7	18574379075	Tremont	2115		MISSION MAIN APARTMENTS	2022-12-20
8	9452094012	Tremont	2115		Longwood Apartment	2022-12-15
9	8573130127	Tremont	2115		Jvue apartments	2023-01-01
10	16178607502	Park Drive	2115		235, Park Drive	2022-12-18
11	8573135613	Boylston	2115		1085,BOYlston Street	2022-12-14
12	6178186131	Tremont	2115		1575 Tremont Street, The Longwood	2022-12-11
13	5086306323	Longfellow	2115		Towers at Longfellow	2022-12-15

9. University

universityId	name	location	zipcode	address
1	Northeastern university	Boston	2115	360 Huntington Ave, Boston, MA
2	Boston university	Boston	2215	Boston, MA
3	MIT	Cambridge	2139	77 Massachusetts Ave, Cambridge, MA
4	Havard	Cambridge	2138	86 Brattle Street Cambridge, MA
NULL	NULL	NULL	NULL	NULL

10. User table

userid	name	mail	phone	creationDate	term	courseId
3109854728	SUBHASHREE	SUBHASHREEgmail.com	3109854728	2022-12-13 00:00:00	FALL 2022	1
5086306323	Keethu	Keethugmail.com	5086306323	2022-12-13 00:00:00	FALL 2022	2
6176029291	Parth Kalni	Parth Kalnigmail.com	6176029291	2022-12-13 00:00:00	FALL 2022	2
6177174118	Aish	Aishgmail.com	6177174118	2022-12-13 00:00:00	FALL 2022	3
6178186131	Kim	Kimgmail.com	6178186131	2022-12-13 00:00:00	FALL 2022	1
6179369062	Bonie Sachdev	Bonie Sachdevgmail.com	6179369062	2022-12-13 00:00:00	FALL 2022	3
6179554772	Niranjan	Niranjangmail.com	6179554772	2022-12-13 00:00:00	FALL 2022	1
6179562364	Vidhya	Vidhyagmail.com	6179562364	2022-12-13 00:00:00	FALL 2022	4
7252547495	Shreya	Shreyagmail.com	7252547495	2022-12-13 00:00:00	FALL 2022	1
7337872316	Manvith	Manvithgmail.com	7337872316	2022-12-13 00:00:00	FALL 2022	1
7816054806	Ramakrishna	Ramakrishnagmail.com	7816054806	2022-12-13 00:00:00	FALL 2022	4
7989001150	Nitin	Nitingmail.com	7989001150	2022-12-13 00:00:00	FALL 2022	1
8411978899	Aishwarya	Aishwarya gmail.com	8411978899	2022-12-13 00:00:00	FALL 2022	1
8572101067		gmail.com	8572101067	2022-12-13 00:00:00	FALL 2022	1

11. Wishlist

wishlistId	accommodationId	userid
1	0	6179562364
2	0	6179562364
3	0	6179562364
4	3	7252547495
5	4	7252547495
6	5	7252547495
7	8	7816054806
8	9	7816054806
9	10	8572149195
10	11	7816054806
11	12	8572149195
12	13	6179562364
13	0	6179562364
14	0	6179562364
15	0	6179562364