How_to_Meet_and_Retrieve_Your_Data

October 19, 2021

To get started, connect to the capstone database and set the database as your default database using the following commands:

```
%load_ext sql
%sql mysql://studentuser:studentpw@localhost/capstone
%sql USE capstone
```

0.0.1 Load and connect to the database

```
[ ]: ## Load Jupyter with SQL extenstion & library and set *capstone* database as
     →default
```

```
[6]: %load_ext sql
     %sql mysql://studentuser:studentpw@localhost/capstone
     %sql USE capstone
```

```
The sql extension is already loaded. To reload it, use:
  %reload_ext sql
 * mysql://studentuser:***@localhost/capstone
0 rows affected.
```

```
[6]: []
```

0.0.2 Queries

You can add as many "cells" as you need in order to explore the database and extract the appropriate data. For a reminder about what "cells" are, how to add them, or how to use Jupyter in general, please refer to the "How to Use Jupyter Notebooks" video at: https://www.coursera.org/learn/analytics-mysql/lecture/oxkUg/how-to-use-jupyter-notebooks.

```
[ ]: ## Show all the tables in the DB
```

```
[2]: %sql SHOW tables;
```

```
 * mysql://studentuser:***@localhost/capstone
6 rows affected.
```

```
[2]: [('location',),
     ('property_type',),
     ('st_property_info',),
     ('st_rental_dates',),
     ('st_rental_prices',),
     ('watershed_property_info',)]
```

```
[6]: ## Described all the attribute/columns of table "property_type" with all its␣
     ↪characterstics
```

```
[3]: %sql DESCRIBE property_type;
```

```
 * mysql://studentuser:***@localhost/capstone
5 rows affected.
```

```
[3]: [('property_type_id', 'varchar(255)', 'NO', 'PRI', None, ''),
     ('apt_house', 'varchar(255)', 'YES', '', None, ''),
     ('num_bedrooms', 'varchar(255)', 'YES', '', None, ''),
     ('kitchen', 'varchar(255)', 'YES', '', None, ''),
     ('shared', 'varchar(255)', 'YES', '', None, '')]
```

```
[7]: %sql SELECT * FROM location
```

```
 * mysql://studentuser:***@localhost/capstone
18218 rows affected.
```

```
[7]: [('L1', 'Anchorage', 'AK', 99501),
     ('L10', 'Anchorage', 'AK', 99518),
     ('L100', 'Cherokee', 'AL', 35616),
     ('L1000', 'Azusa', 'CA', 91702),
     ('L10000', 'Winston-Sa', 'NC', 27101),
     ('L10001', 'Winston-Sa', 'NC', 27103),
     ('L10002', 'Winston-Sa', 'NC', 27104),
     ('L10003', 'Winston-Sa', 'NC', 27105),
     ('L10004', 'Winston-Sa', 'NC', 27106),
     ('L10005', 'Winston-Sa', 'NC', 27107),
     ('L10006', 'Winston-Sa', 'NC', 27127),
     ('L10007', 'Woodleaf', 'NC', 27054),
     ('L10008', 'Yadkinvill', 'NC', 27055),
     ('L10009', 'Yanceyvill', 'NC', 27379),
     ('L1001', 'Bakersfiel', 'CA', 93301),
     ('L10010', 'Youngsvill', 'NC', 27596),
     ('L10011', 'Zebulon', 'NC', 27597),
     ('L10012', 'Zionville', 'NC', 28698),
     ('L10013', 'Zirconia', 'NC', 28790),
     ('L10014', 'Belfield', 'ND', 58622),
     ('L10015', 'Carrington', 'ND', 58421),
```

```
('L10016', 'Center', 'ND', 58530),
('L10017', 'Cooperstow', 'ND', 58425),
('L10018', 'Ellendale', 'ND', 58436),
('L10019', 'Enderlin', 'ND', 58027),
('L1002', 'Bakersfiel', 'CA', 93304),
('L10020', 'Fargo', 'ND', 58102),
('L10021', 'Fargo', 'ND', 58103),
('L10022', 'Grafton', 'ND', 58237),
('L10023', 'Jamestown', 'ND', 58401),
('L10024', 'Killdeer', 'ND', 58640),
('L10025', 'Lakota', 'ND', 58344),
('L10026', 'Lisbon', 'ND', 58054),
('L10027', 'Minto', 'ND', 58261),
('L10028', 'Oakes', 'ND', 58474),
('L10029', 'Park River', 'ND', 58270),
('L1003', 'Bakersfiel', 'CA', 93305),
('L10030', 'Richardton', 'ND', 58652),
('L10031', 'Washburn', 'ND', 58577),
('L10032', 'West Fargo', 'ND', 58078),
('L10033', 'Wilton', 'ND', 58579),
('L10034', 'Albion', 'NE', 68620),
('L10035', 'Alda', 'NE', 68810),
('L10036', 'Alliance', 'NE', 69301),
('L10037', 'Ansley', 'NE', 68814),
('L10038', 'Arlington', 'NE', 68002),
('L10039', 'Ashland', 'NE', 68003),
('L1004', 'Bakersfiel', 'CA', 93306),
('L10040', 'Auburn', 'NE', 68305),
('L10041', 'Aurora', 'NE', 68818),
('L10042', 'Beatrice', 'NE', 68310),
('L10043', 'Bee', 'NE', 68314),
('L10044', 'Bellevue', 'NE', 68005),
('L10045', 'Bellevue', 'NE', 68123),
('L10046', 'Bellevue', 'NE', 68147),
('L10047', 'Bennington', 'NE', 68007),
('L10048', 'Blair', 'NE', 68008),
('L10049', 'Blue Sprin', 'NE', 68318),
('L1005', 'Bakersfiel', 'CA', 93307),
('L10050', 'Bradshaw', 'NE', 68319),
('L10051', 'Broadwater', 'NE', 69125),
('L10052', 'Broken Bow', 'NE', 68822),
('L10053', 'Burchard', 'NE', 68323),
('L10054', 'Burwell', 'NE', 68823),
('L10055', 'Campbell', 'NE', 68932),
('L10056', 'Central Ci', 'NE', 68826),
('L10057', 'Chadron', 'NE', 69337),
('L10058', 'Clarkson', 'NE', 68629),
```

```
('L10059', 'Columbus', 'NE', 68601),
('L1006', 'Bakersfiel', 'CA', 93309),
('L10060', 'Cozad', 'NE', 69130),
('L10061', 'Crete', 'NE', 68333),
('L10062', 'Culbertson', 'NE', 69024),
('L10063', 'Curtis', 'NE', 69025),
('L10064', 'David City', 'NE', 68632),
('L10065', 'Deshler', 'NE', 68340),
('L10066', 'Dixon', 'NE', 68732),
('L10067', 'Doniphan', 'NE', 68832),
('L10068', 'Douglas', 'NE', 68344),
('L10069', 'Eagle', 'NE', 68347),
('L1007', 'Bakersfiel', 'CA', 93311),
('L10070', 'Elwood', 'NE', 68937),
('L10071', 'Fairbury', 'NE', 68352),
('L10072', 'Falls City', 'NE', 68355),
('L10073', 'Fort Calho', 'NE', 68023),
('L10074', 'Fremont', 'NE', 68025),
('L10075', 'Fullerton', 'NE', 68638),
('L10076', 'Geneva', 'NE', 68361),
('L10077', 'Genoa', 'NE', 68640),
('L10078', 'Gering', 'NE', 69341),
('L10079', 'Gothenburg', 'NE', 69138),
('L1008', 'Bakersfiel', 'CA', 93312),
('L10080', 'Grand Isla', 'NE', 68801),
('L10081', 'Grand Isla', 'NE', 68803),
('L10082', 'Grant', 'NE', 69140),
('L10083', 'Gretna', 'NE', 68028),
('L10084', 'Guide Rock', 'NE', 68942),
('L10085', 'Harvard', 'NE', 68944),
('L10086', 'Hastings', 'NE', 68901),
('L10087', 'Hebron', 'NE', 68370),
('L10088', 'Hickman', 'NE', 68372),
('L10089', 'Hildreth', 'NE', 68947),
('L1009', 'Bakersfiel', 'CA', 93313),
('L10090', 'Holdrege', 'NE', 68949),
('L10091', 'Homer', 'NE', 68030),
('L10092', 'Hooper', 'NE', 68031),
('L10093', 'Howells', 'NE', 68641),
('L10094', 'Hubbard', 'NE', 68741),
('L10095', 'Humphrey', 'NE', 68642),
('L10096', 'Kimball', 'NE', 69145),
('L10097', 'La Vista', 'NE', 68128),
('L10098', 'Lewellen', 'NE', 69147),
('L10099', 'Lexington', 'NE', 68850),
('L101', 'Chickasaw', 'AL', 36611),
('L1010', 'Baldwin Pa', 'CA', 91706),
```

```
('L10100', 'Lincoln', 'NE', 68502),
('L10101', 'Lincoln', 'NE', 68503),
('L10102', 'Lincoln', 'NE', 68504),
('L10103', 'Lincoln', 'NE', 68505),
('L10104', 'Lincoln', 'NE', 68506),
('L10105', 'Lincoln', 'NE', 68507),
('L10106', 'Lincoln', 'NE', 68508),
('L10107', 'Lincoln', 'NE', 68510),
('L10108', 'Lincoln', 'NE', 68512),
('L10109', 'Lincoln', 'NE', 68516),
('L1011', 'Banning', 'CA', 92220),
('L10110', 'Lincoln', 'NE', 68521),
('L10111', 'Lincoln', 'NE', 68522),
('L10112', 'Lincoln', 'NE', 68524),
('L10113', 'Lincoln', 'NE', 68526),
('L10114', 'Lincoln', 'NE', 68528),
('L10115', 'Loomis', 'NE', 68958),
('L10116', 'McCook', 'NE', 69001),
('L10117', 'McCool Jun', 'NE', 68401),
('L10118', 'Milford', 'NE', 68405),
('L10119', 'Mitchell', 'NE', 69357),
('L1012', 'Barstow', 'CA', 92311),
('L10120', 'Naponee', 'NE', 68960),
('L10121', 'Nebraska C', 'NE', 68410),
('L10122', 'North Bend', 'NE', 68649),
('L10123', 'North Plat', 'NE', 69101),
('L10124', 'Odell', 'NE', 68415),
('L10125', 'Omaha', 'NE', 68022),
('L10126', 'Omaha', 'NE', 68046),
('L10127', 'Omaha', 'NE', 68102),
('L10128', 'Omaha', 'NE', 68104),
('L10129', 'Omaha', 'NE', 68105),
('L1013', 'Beaumont', 'CA', 92223),
('L10130', 'Omaha', 'NE', 68106),
('L10131', 'Omaha', 'NE', 68107),
('L10132', 'Omaha', 'NE', 68108),
('L10133', 'Omaha', 'NE', 68110),
('L10134', 'Omaha', 'NE', 68111),
('L10135', 'Omaha', 'NE', 68112),
('L10136', 'Omaha', 'NE', 68114),
('L10137', 'Omaha', 'NE', 68116),
('L10138', 'Omaha', 'NE', 68117),
('L10139', 'Omaha', 'NE', 68118),
('L1014', 'Bell', 'CA', 90201),
('L10140', 'Omaha', 'NE', 68122),
('L10141', 'Omaha', 'NE', 68124),
('L10142', 'Omaha', 'NE', 68127),
```

```
('L10143', 'Omaha', 'NE', 68130),
('L10144', 'Omaha', 'NE', 68131),
('L10145', 'Omaha', 'NE', 68132),
('L10146', 'Omaha', 'NE', 68134),
('L10147', 'Omaha', 'NE', 68135),
('L10148', 'Omaha', 'NE', 68136),
('L10149', 'Omaha', 'NE', 68137),
('L1015', 'Bellflower', 'CA', 90706),
('L10150', 'Omaha', 'NE', 68138),
('L10151', 'Omaha', 'NE', 68142),
('L10152', 'Omaha', 'NE', 68144),
('L10153', 'Omaha', 'NE', 68152),
('L10154', 'Omaha', 'NE', 68154),
('L10155', 'Omaha', 'NE', 68157),
('L10156', 'Omaha', 'NE', 68164),
('L10157', 'Overton', 'NE', 68863),
('L10158', 'Papillion', 'NE', 68046),
('L10159', 'Papillion', 'NE', 68133),
('L1016', 'Belmont', 'CA', 94002),
('L10160', 'Pawnee Cit', 'NE', 68420),
('L10161', 'Peru', 'NE', 68421),
('L10162', 'Pierce', 'NE', 68767),
('L10163', 'Plattsmout', 'NE', 68048),
('L10164', 'Ponca', 'NE', 68770),
('L10165', 'Rising Cit', 'NE', 68658),
('L10166', 'Riverdale', 'NE', 68870),
('L10167', 'Riverton', 'NE', 68972),
('L10168', 'Saint Paul', 'NE', 68873),
('L10169', 'Sargent', 'NE', 68874),
('L1017', 'Ben Lomond', 'CA', 95005),
('L10170', 'Schuyler', 'NE', 68661),
('L10171', 'Scottsbluf', 'NE', 69361),
('L10172', 'Seward', 'NE', 68434),
('L10173', 'Shelby', 'NE', 68662),
('L10174', 'Sidney', 'NE', 69162),
('L10175', 'South Siou', 'NE', 68776),
('L10176', 'Springfiel', 'NE', 68059),
('L10177', 'Stanton', 'NE', 68779),
('L10178', 'Staplehurs', 'NE', 68439),
('L10179', 'Steinauer', 'NE', 68441),
('L1018', 'Benicia', 'CA', 94510),
('L10180', 'Stromsburg', 'NE', 68666),
('L10181', 'Superior', 'NE', 68978),
('L10182', 'Sutton', 'NE', 68979),
('L10183', 'Syracuse', 'NE', 68446),
('L10184', 'Tekamah', 'NE', 68061),
('L10185', 'Upland', 'NE', 68981),
```

```
('L10186', 'Valley', 'NE', 68064),
('L10187', 'Waco', 'NE', 68460),
('L10188', 'Wahoo', 'NE', 68066),
('L10189', 'Wakefield', 'NE', 68784),
('L1019', 'Berkeley', 'CA', 94702),
('L10190', 'Wallace', 'NE', 69169),
('L10191', 'Waterloo', 'NE', 68069),
('L10192', 'Waverly', 'NE', 68462),
('L10193', 'West Point', 'NE', 68788),
('L10194', 'Wilber', 'NE', 68465),
('L10195', 'Wymore', 'NE', 68466),
('L10196', 'Wynot', 'NE', 68792),
('L10197', 'York', 'NE', 68467),
('L10198', 'Yutan', 'NE', 68073),
('L10199', 'Acworth', 'NH', 3601),
('L102', 'Childersbu', 'AL', 35044),
('L1020', 'Berkeley', 'CA', 94703),
('L10200', 'Alstead', 'NH', 3602),
('L10201', 'Alton', 'NH', 3809),
('L10202', 'Amherst', 'NH', 3031),
('L10203', 'Andover', 'NH', 3216),
('L10204', 'Ashland', 'NH', 3217),
('L10205', 'Atkinson', 'NH', 3811),
('L10206', 'Auburn', 'NH', 3032),
('L10207', 'Barnstead', 'NH', 3225),
('L10208', 'Barrington', 'NH', 3825),
('L10209', 'Bartlett', 'NH', 3838),
('L1021', 'Berkeley', 'CA', 94704),
('L10210', 'Bartlett', 'NH', 3845),
('L10211', 'Bath', 'NH', 3740),
('L10212', 'Bedford', 'NH', 3110),
('L10213', 'Belmont', 'NH', 3220),
('L10214', 'Bennington', 'NH', 3442),
('L10215', 'Berlin', 'NH', 3570),
('L10216', 'Bethlehem', 'NH', 3574),
('L10217', 'Bow', 'NH', 3304),
('L10218', 'Bradford', 'NH', 3221),
('L10219', 'Brookline', 'NH', 3033),
('L1022', 'Berkeley', 'CA', 94707),
('L10220', 'Campton', 'NH', 3223),
('L10221', 'Candia', 'NH', 3034),
('L10222', 'Canterbury', 'NH', 3224),
('L10223', 'Center Har', 'NH', 3226),
('L10224', 'Chichester', 'NH', 3258),
('L10225', 'Claremont', 'NH', 3743),
('L10226', 'Colebrook', 'NH', 3576),
('L10227', 'Concord', 'NH', 3301),
```

```
('L10228', 'Concord', 'NH', 3303),
('L10229', 'Cornish', 'NH', 3745),
('L1023', 'Berkeley', 'CA', 94708),
('L10230', 'Danbury', 'NH', 3230),
('L10231', 'Danville', 'NH', 3819),
('L10232', 'Deerfield', 'NH', 3037),
('L10233', 'Derry', 'NH', 3038),
('L10234', 'Dover', 'NH', 3820),
('L10235', 'Dublin', 'NH', 3444),
('L10236', 'Dunbarton', 'NH', 3046),
('L10237', 'East Hamps', 'NH', 3826),
('L10238', 'East Kings', 'NH', 3827),
('L10239', 'Effingham', 'NH', 3882),
('L1024', 'Berkeley', 'CA', 94709),
('L10240', 'Epsom', 'NH', 3234),
('L10241', 'Fitzwillia', 'NH', 3447),
('L10242', 'Francestow', 'NH', 3043),
('L10243', 'Franklin', 'NH', 3235),
('L10244', 'Freedom', 'NH', 3836),
('L10245', 'Fremont', 'NH', 3044),
('L10246', 'Gilford', 'NH', 3249),
('L10247', 'Gilford', 'NH', 3810),
('L10248', 'Gilmanton', 'NH', 3237),
('L10249', 'Grafton', 'NH', 3240),
('L1025', 'Berkeley', 'CA', 94710),
('L10250', 'Grantham', 'NH', 3753),
('L10251', 'Greenfield', 'NH', 3047),
('L10252', 'Greenland', 'NH', 3840),
('L10253', 'Groveton', 'NH', 3582),
('L10254', 'Hampstead', 'NH', 3841),
('L10255', 'Hancock', 'NH', 3449),
('L10256', 'Harrisvill', 'NH', 3450),
('L10257', "Hart'S Loc", 'NH', 3812),
('L10258', 'Haverhill', 'NH', 3765),
('L10259', 'Haverhill', 'NH', 3774),
('L1026', 'Berry Cree', 'CA', 95916),
('L10260', 'Haverhill', 'NH', 3780),
('L10261', 'Hill', 'NH', 3243),
('L10262', 'Holderness', 'NH', 3245),
('L10263', 'Hopkinton', 'NH', 3229),
('L10264', 'Jackson', 'NH', 3846),
('L10265', 'Jefferson', 'NH', 3583),
('L10266', 'Kingston', 'NH', 3848),
('L10267', 'Laconia', 'NH', 3246),
('L10268', 'Lee', 'NH', 3861),
('L10269', 'Lempster', 'NH', 3605),
('L1027', 'Bethel Isl', 'CA', 94511),
```

```
('L10270', 'Loudon', 'NH', 3307),
('L10271', 'Lyndeborou', 'NH', 3082),
('L10272', 'Madbury', 'NH', 3823),
('L10273', 'Madison', 'NH', 3849),
('L10274', 'Madison', 'NH', 3875),
('L10275', 'Manchester', 'NH', 3102),
('L10276', 'Manchester', 'NH', 3103),
('L10277', 'Manchester', 'NH', 3104),
('L10278', 'Manchester', 'NH', 3109),
('L10279', 'Merrimack', 'NH', 3054),
('L1028', 'Beverly Hi', 'CA', 90210),
('L10280', 'Milan', 'NH', 3588),
('L10281', 'Milton', 'NH', 3851),
('L10282', 'Monroe', 'NH', 3771),
('L10283', 'Mont Verno', 'NH', 3057),
('L10284', 'Moultonbor', 'NH', 3254),
('L10285', 'Nashua', 'NH', 3060),
('L10286', 'Nashua', 'NH', 3062),
('L10287', 'Nashua', 'NH', 3063),
('L10288', 'Nashua', 'NH', 3064),
('L10289', 'Nelson', 'NH', 3457),
('L1029', 'Beverly Hi', 'CA', 90211),
('L10290', 'New Boston', 'NH', 3070),
('L10291', 'Newbury', 'NH', 3255),
('L10292', 'Newfields', 'NH', 3856),
('L10293', 'Newton', 'NH', 3858),
('L10294', 'North Hamp', 'NH', 3862),
('L10295', 'Northwood', 'NH', 3261),
('L10296', 'Nottingham', 'NH', 3290),
('L10297', 'Orford', 'NH', 3777),
('L10298', 'Ossipee', 'NH', 3814),
('L10299', 'Ossipee', 'NH', 3864),
('L103', 'Chunchula', 'AL', 36521),
('L1030', 'Beverly Hi', 'CA', 90212),
('L10300', 'Pelham', 'NH', 3076),
('L10301', 'Pittsburg', 'NH', 3592),
('L10302', 'Plainfield', 'NH', 3770),
('L10303', 'Plainfield', 'NH', 3781),
('L10304', 'Plaistow', 'NH', 3865),
('L10305', 'Portsmouth', 'NH', 3801),
('L10306', 'Rindge', 'NH', 3461),
('L10307', 'Rochester', 'NH', 3837),
('L10308', 'Rochester', 'NH', 3839),
('L10309', 'Rochester', 'NH', 3867),
('L1031', 'Big Bear C', 'CA', 92314),
('L10310', 'Rochester', 'NH', 3868),
('L10311', 'Rollinsfor', 'NH', 3869),
```

```
('L10312', 'Rumney', 'NH', 3266),
('L10313', 'Rye', 'NH', 3870),
('L10314', 'Salem', 'NH', 3079),
('L10315', 'Salisbury', 'NH', 3268),
('L10316', 'Sanbornton', 'NH', 3269),
('L10317', 'Sandown', 'NH', 3873),
('L10318', 'Sandwich', 'NH', 3227),
('L10319', 'Seabrook', 'NH', 3874),
('L1032', 'Big Bear C', 'CA', 92382),
('L10320', 'Springfiel', 'NH', 3284),
('L10321', 'Stoddard', 'NH', 3464),
('L10322', 'Strafford', 'NH', 3884),
('L10323', 'Stratford', 'NH', 3590),
('L10324', 'Stratham', 'NH', 3885),
('L10325', 'Sunapee', 'NH', 3782),
('L10326', 'Suncook', 'NH', 3275),
('L10327', 'Surry', 'NH', 3431),
('L10328', 'Swanzey', 'NH', 3446),
('L10329', 'Tamworth', 'NH', 3886),
('L1033', 'Big Bear C', 'CA', 92386),
('L10330', 'Thornton', 'NH', 3285),
('L10331', 'Tilton', 'NH', 3276),
('L10332', 'Town of Ch', 'NH', 3603),
('L10333', 'Town of Co', 'NH', 3813),
('L10334', 'Town of Co', 'NH', 3818),
('L10335', 'Town of Co', 'NH', 3860),
('L10336', 'Town of Du', 'NH', 3824),
('L10337', 'Town of Ep', 'NH', 3042),
('L10338', 'Town of Ex', 'NH', 3833),
('L10339', 'Town of Fa', 'NH', 3835),
('L1034', 'Big Bear L', 'CA', 92315),
('L10340', 'Town of Go', 'NH', 3581),
('L10341', 'Town of Gr', 'NH', 3048),
('L10342', 'Town of Ha', 'NH', 3842),
('L10343', 'Town of Hi', 'NH', 3244),
('L10344', 'Town of Hi', 'NH', 3451),
('L10345', 'Town of Ho', 'NH', 3106),
('L10346', 'Town of Hu', 'NH', 3051),
('L10347', 'Town of Ja', 'NH', 3452),
('L10348', 'Town of La', 'NH', 3584),
('L10349', 'Town of Li', 'NH', 3561),
('L1035', 'Big Pine', 'CA', 93513),
('L10350', 'Town of Li', 'NH', 3585),
('L10351', 'Town of Lo', 'NH', 3053),
('L10352', 'Town of Ma', 'NH', 3455),
('L10353', 'Town of Me', 'NH', 3253),
('L10354', 'Town of Mi', 'NH', 3055),
```

```
('L10355', 'Town of Ne', 'NH', 3773),
('L10356', 'Town of Ne', 'NH', 3857),
('L10357', 'Town of Pi', 'NH', 3263),
('L10358', 'Town of Ra', 'NH', 3077),
('L10359', 'Town of Wh', 'NH', 3598),
('L1036', 'Biggs', 'CA', 95917),
('L10360', 'Town of Wi', 'NH', 3086),
('L10361', 'Town of Wi', 'NH', 3470),
('L10362', 'Town of Wo', 'NH', 3894),
('L10363', 'Troy', 'NH', 3465),
('L10364', 'Tuftonboro', 'NH', 3816),
('L10365', 'Wakefield', 'NH', 3830),
('L10366', 'Wakefield', 'NH', 3872),
('L10367', 'Walpole', 'NH', 3608),
('L10368', 'Warner', 'NH', 3278),
('L10369', 'Washington', 'NH', 3280),
('L1037', 'Bishop', 'CA', 93514),
('L10370', 'Wentworth', 'NH', 3282),
('L10371', 'Westmorela', 'NH', 3467),
('L10372', 'Windham', 'NH', 3087),
('L10373', 'Absecon', 'NJ', 8201),
('L10374', 'Alexandria', 'NJ', 8867),
('L10375', 'Allendale', 'NJ', 7401),
('L10376', 'Asbury Par', 'NJ', 7712),
('L10377', 'Atlantic C', 'NJ', 8401),
('L10378', 'Atlantic H', 'NJ', 7716),
('L10379', 'Audubon', 'NJ', 8106),
('L1038', 'Blairsden-', 'CA', 96103),
('L10380', 'Avenel', 'NJ', 7001),
('L10381', 'Barnegat T', 'NJ', 8005),
('L10382', 'Barrington', 'NJ', 8007),
('L10383', 'Bayonne', 'NJ', 7002),
('L10384', 'Beachwood', 'NJ', 8722),
('L10385', 'Bedminster', 'NJ', 7921),
('L10386', 'Belleville', 'NJ', 7109),
('L10387', 'Bellmawr', 'NJ', 8031),
('L10388', 'Belvidere', 'NJ', 7823),
('L10389', 'Bergenfiel', 'NJ', 7621),
('L1039', 'Bloomingto', 'CA', 92316),
('L10390', 'Berkeley', 'NJ', 8721),
('L10391', 'Berkeley H', 'NJ', 7922),
('L10392', 'Berlin Tow', 'NJ', 8009),
('L10393', 'Berlin Tow', 'NJ', 8091),
('L10394', 'Bernards T', 'NJ', 7920),
('L10395', 'Bernardsvi', 'NJ', 7924),
('L10396', 'Bethlehem ', 'NJ', 8802),
('L10397', 'Blairstown', 'NJ', 7825),
```

```
('L10398', 'Bloomfield', 'NJ', 7003),
('L10399', 'Bloomingda', 'NJ', 7403),
('L104', 'Citronelle', 'AL', 36522),
('L1040', 'Blythe', 'CA', 92225),
('L10400', 'Bloomsbury', 'NJ', 8804),
('L10401', 'Boonton', 'NJ', 7005),
('L10402', 'Bordentown', 'NJ', 8505),
('L10403', 'Bound Broo', 'NJ', 8805),
('L10404', 'Branchburg', 'NJ', 8853),
('L10405', 'Branchburg', 'NJ', 8876),
('L10406', 'Branchvill', 'NJ', 7826),
('L10407', 'Brick', 'NJ', 8723),
('L10408', 'Brick', 'NJ', 8724),
('L10409', 'Bridgeton', 'NJ', 8302),
('L1041', 'Bodega Bay', 'CA', 94923),
('L10410', 'Bridgewate', 'NJ', 8807),
('L10411', 'Bridgewate', 'NJ', 8836),
('L10412', 'Brielle', 'NJ', 8730),
('L10413', 'Brigantine', 'NJ', 8203),
('L10414', 'Browns Mil', 'NJ', 8015),
('L10415', 'Budd Lake', 'NJ', 7828),
('L10416', 'Buena', 'NJ', 8326),
('L10417', 'Buena', 'NJ', 8341),
('L10418', 'Buena Vist', 'NJ', 8310),
('L10419', 'Burlington', 'NJ', 8016),
('L1042', 'Bonita', 'CA', 91902),
('L10420', 'Byram Town', 'NJ', 7821),
('L10421', 'Camden', 'NJ', 8102),
('L10422', 'Camden', 'NJ', 8103),
('L10423', 'Camden', 'NJ', 8104),
('L10424', 'Camden', 'NJ', 8105),
('L10425', 'Carteret', 'NJ', 7008),
('L10426', 'Cedar Grov', 'NJ', 7009),
('L10427', 'Chatham To', 'NJ', 7928),
('L10428', 'Cherry Hil', 'NJ', 8002),
('L10429', 'Cherry Hil', 'NJ', 8003),
('L1043', 'Bonsall', 'CA', 92003),
('L10430', 'Cherry Hil', 'NJ', 8034),
('L10431', 'Chesilhurs', 'NJ', 8089),
('L10432', 'Chester To', 'NJ', 7930),
('L10433', 'Chesterfie', 'NJ', 8515),
('L10434', 'Cinnaminso', 'NJ', 8077),
('L10435', 'Clark', 'NJ', 7066),
('L10436', 'Clayton', 'NJ', 8312),
('L10437', 'Cliffside ', 'NJ', 7010),
('L10438', 'Cliffwood', 'NJ', 7721),
('L10439', 'Clifton', 'NJ', 7011),
```

```
('L1044', 'Boron', 'CA', 93516),
('L10440', 'Clifton', 'NJ', 7012),
('L10441', 'Clifton', 'NJ', 7013),
('L10442', 'Clifton', 'NJ', 7014),
('L10443', 'Clinton To', 'NJ', 8801),
('L10444', 'Clinton To', 'NJ', 8809),
('L10445', 'Clinton To', 'NJ', 8833),
('L10446', 'Closter', 'NJ', 7624),
('L10447', 'Collingswo', 'NJ', 8108),
('L10448', 'Colonia', 'NJ', 7067),
('L10449', 'Colts Neck', 'NJ', 7722),
('L1045', 'Borrego Sp', 'CA', 92004),
('L10450', 'Cranbury T', 'NJ', 8512),
('L10451', 'Cranford', 'NJ', 7016),
('L10452', 'Cresskill', 'NJ', 7626),
('L10453', 'Dayton', 'NJ', 8810),
('L10454', 'Delaware T', 'NJ', 8559),
('L10455', 'Delran', 'NJ', 8075),
('L10456', 'Demarest', 'NJ', 7627),
('L10457', 'Denville', 'NJ', 7834),
('L10458', 'Deptford T', 'NJ', 8096),
('L10459', 'Dover', 'NJ', 7801),
('L1046', 'Bradley', 'CA', 93426),
('L10460', 'Dover Beac', 'NJ', 8751),
('L10461', 'Downe Town', 'NJ', 8345),
('L10462', 'Dumont', 'NJ', 7628),
('L10463', 'Eagleswood', 'NJ', 8092),
('L10464', 'East Amwel', 'NJ', 8551),
('L10465', 'East Bruns', 'NJ', 8816),
('L10466', 'East Green', 'NJ', 8020),
('L10467', 'East Green', 'NJ', 8056),
('L10468', 'East Green', 'NJ', 8061),
('L10469', 'East Hanov', 'NJ', 7936),
('L1047', 'Brea', 'CA', 92821),
('L10470', 'East Orang', 'NJ', 7017),
('L10471', 'East Orang', 'NJ', 7018),
('L10472', 'East Winds', 'NJ', 8520),
('L10473', 'Edgewater', 'NJ', 7020),
('L10474', 'Edgewater ', 'NJ', 8010),
('L10475', 'Edison', 'NJ', 8817),
('L10476', 'Edison', 'NJ', 8820),
('L10477', 'Edison', 'NJ', 8837),
('L10478', 'Egg Harbor', 'NJ', 8234),
('L10479', 'Elizabeth', 'NJ', 7201),
('L1048', 'Brea', 'CA', 92823),
('L10480', 'Elizabeth', 'NJ', 7202),
('L10481', 'Elizabeth', 'NJ', 7206),
```

```
('L10482', 'Elizabeth', 'NJ', 7208),
('L10483', 'Elk Townsh', 'NJ', 8343),
('L10484', 'Emerson', 'NJ', 7630),
('L10485', 'Englewood', 'NJ', 7631),
('L10486', 'Englewood ', 'NJ', 7632),
('L10487', 'Essex Fell', 'NJ', 7021),
('L10488', 'Estell Man', 'NJ', 8319),
('L10489', 'Evesham', 'NJ', 8053),
('L1049', 'Brentwood', 'CA', 94513),
('L10490', 'Ewing', 'NJ', 8628),
('L10491', 'Ewing', 'NJ', 8638),
('L10492', 'Fair Haven', 'NJ', 7704),
('L10493', 'Fair Lawn', 'NJ', 7410),
('L10494', 'Fairfield', 'NJ', 7004),
('L10495', 'Fanwood', 'NJ', 7023),
('L10496', 'Far Hills', 'NJ', 7931),
('L10497', 'Farmingdal', 'NJ', 7727),
('L10498', 'Florence-R', 'NJ', 8518),
('L10499', 'Florence-R', 'NJ', 8554),
('L105', 'Clanton', 'AL', 35045),
('L1050', 'Bridgeport', 'CA', 93517),
('L10500', 'Florham Pa', 'NJ', 7932),
('L10501', 'Fords', 'NJ', 8863),
('L10502', 'Fort Lee', 'NJ', 7024),
('L10503', 'Franklin', 'NJ', 7416),
('L10504', 'Franklin L', 'NJ', 7417),
('L10505', 'Franklin T', 'NJ', 8322),
('L10506', 'Franklin T', 'NJ', 8328),
('L10507', 'Franklin T', 'NJ', 8344),
('L10508', 'Franklin T', 'NJ', 8823),
('L10509', 'Franklin T', 'NJ', 8873),
('L1051', 'Brisbane', 'CA', 94005),
('L10510', 'Freehold T', 'NJ', 7728),
('L10511', 'Galloway', 'NJ', 8205),
('L10512', 'Galloway', 'NJ', 8215),
('L10513', 'Garwood', 'NJ', 7027),
('L10514', 'Gibbsboro', 'NJ', 8026),
('L10515', 'Gibbstown', 'NJ', 8027),
('L10516', 'Glassboro', 'NJ', 8028),
('L10517', 'Glen Ridge', 'NJ', 7028),
('L10518', 'Glen Rock', 'NJ', 7452),
('L10519', 'Glendora', 'NJ', 8029),
('L1052', 'Browns Val', 'CA', 95918),
('L10520', 'Gloucester', 'NJ', 8030),
('L10521', 'Gloucester', 'NJ', 8081),
('L10522', 'Green Broo', 'NJ', 8812),
('L10523', 'Greenwich ', 'NJ', 8886),
```

```
('L10524', 'Hackettsto', 'NJ', 7840),
('L10525', 'Haddon Hei', 'NJ', 8035),
('L10526', 'Hainesport', 'NJ', 8036),
('L10527', 'Hamilton T', 'NJ', 8330),
('L10528', 'Hamilton T', 'NJ', 8610),
('L10529', 'Hammonton', 'NJ', 8037),
('L1053', 'Buellton', 'CA', 93427),
('L10530', 'Hampton', 'NJ', 8827),
('L10531', 'Hanover', 'NJ', 7927),
('L10532', 'Hanover', 'NJ', 7981),
('L10533', 'Hardyston', 'NJ', 7419),
('L10534', 'Hardyston', 'NJ', 7460),
('L10535', 'Harrington', 'NJ', 7640),
('L10536', 'Harrison T', 'NJ', 8062),
('L10537', 'Hasbrouck ', 'NJ', 7604),
('L10538', 'Haworth', 'NJ', 7641),
('L10539', 'Hawthorne', 'NJ', 7506),
('L1054', 'Buena Park', 'CA', 90620),
('L10540', 'Hazlet', 'NJ', 7730),
('L10541', 'Helmetta', 'NJ', 8828),
('L10542', 'Hewitt', 'NJ', 7421),
('L10543', 'High Bridg', 'NJ', 8829),
('L10544', 'Highland L', 'NJ', 7422),
('L10545', 'Highland P', 'NJ', 8904),
('L10546', 'Highlands', 'NJ', 7732),
('L10547', 'Hillsborou', 'NJ', 8844),
('L10548', 'Hillsdale', 'NJ', 7642),
('L10549', 'Hillside', 'NJ', 7205),
('L1055', 'Buena Park', 'CA', 90621),
('L10550', 'Ho Ho Kus', 'NJ', 7423),
('L10551', 'Hoboken', 'NJ', 7030),
('L10552', 'Holiday Ci', 'NJ', 8757),
('L10553', 'Holland To', 'NJ', 8848),
('L10554', 'Holmdel', 'NJ', 7733),
('L10555', 'Hopatcong', 'NJ', 7843),
('L10556', 'Hopewell T', 'NJ', 8525),
('L10557', 'Hopewell T', 'NJ', 8534),
('L10558', 'Hopewell T', 'NJ', 8560),
('L10559', 'Howell', 'NJ', 7731),
('L1056', 'Burbank', 'CA', 91501),
('L10560', 'Irvington', 'NJ', 7111),
('L10561', 'Iselin', 'NJ', 8830),
('L10562', 'Island Hei', 'NJ', 8732),
('L10563', 'Jackson', 'NJ', 8527),
('L10564', 'Jefferson ', 'NJ', 7438),
('L10565', 'Jefferson ', 'NJ', 7849),
('L10566', 'Jersey Cit', 'NJ', 7302),
```

```
('L10567', 'Jersey Cit', 'NJ', 7304),
('L10568', 'Jersey Cit', 'NJ', 7305),
('L10569', 'Jersey Cit', 'NJ', 7306),
('L1057', 'Burbank', 'CA', 91502),
('L10570', 'Jersey Cit', 'NJ', 7307),
('L10571', 'Jersey Cit', 'NJ', 7310),
('L10572', 'Keansburg', 'NJ', 7734),
('L10573', 'Kearny', 'NJ', 7032),
('L10574', 'Kenilworth', 'NJ', 7033),
('L10575', 'Kingwood T', 'NJ', 8825),
('L10576', 'Kinnelon', 'NJ', 7405),
('L10577', 'Knowlton T', 'NJ', 7832),
('L10578', 'Lacey', 'NJ', 8731),
('L10579', 'Lacey', 'NJ', 8734),
('L1058', 'Burbank', 'CA', 91504),
('L10580', 'Lafayette', 'NJ', 7848),
('L10581', 'Lakehurst', 'NJ', 8733),
('L10582', 'Lakewood T', 'NJ', 8701),
('L10583', 'Lambertvil', 'NJ', 8530),
('L10584', 'Lawnside', 'NJ', 8045),
('L10585', 'Lawrence', 'NJ', 8648),
('L10586', 'Lawrence T', 'NJ', 8311),
('L10587', 'Lebanon To', 'NJ', 8826),
('L10588', 'Leonia', 'NJ', 7605),
('L10589', 'Liberty To', 'NJ', 7838),
('L1059', 'Burbank', 'CA', 91505),
('L10590', 'Lincoln Pa', 'NJ', 7035),
('L10591', 'Lincroft', 'NJ', 7738),
('L10592', 'Linden', 'NJ', 7036),
('L10593', 'Lindenwold', 'NJ', 8021),
('L10594', 'Linwood', 'NJ', 8221),
('L10595', 'Little Fal', 'NJ', 7424),
('L10596', 'Little Sil', 'NJ', 7739),
('L10597', 'Livingston', 'NJ', 7039),
('L10598', 'Long Branc', 'NJ', 7740),
('L10599', 'Long Hill ', 'NJ', 7933),
('L106', 'Clanton', 'AL', 35046),
('L1060', 'Burbank', 'CA', 91506),
('L10600', 'Long Hill ', 'NJ', 7946),
('L10601', 'Long Hill ', 'NJ', 7980),
('L10602', 'Long Valle', 'NJ', 7853),
('L10603', 'Lower Town', 'NJ', 8204),
('L10604', 'Lumberton', 'NJ', 8048),
('L10605', 'Madison', 'NJ', 7940),
('L10606', 'Madison Pa', 'NJ', 8859),
('L10607', 'Magnolia', 'NJ', 8049),
('L10608', 'Mahwah', 'NJ', 7430),
```

```
('L10609', 'Manalapan', 'NJ', 7726),
('L1061', 'Burlingame', 'CA', 94010),
('L10610', 'Manasquan', 'NJ', 8736),
('L10611', 'Manchester', 'NJ', 8759),
('L10612', 'Mansfield', 'NJ', 8022),
('L10613', 'Mansfield ', 'NJ', 7865),
('L10614', 'Mantolokin', 'NJ', 8738),
('L10615', 'Mantua', 'NJ', 8051),
('L10616', 'Manville', 'NJ', 8835),
('L10617', 'Maple Shad', 'NJ', 8052),
('L10618', 'Maplewood', 'NJ', 7040),
('L10619', 'Marlboro', 'NJ', 7746),
('L1062', 'Burney', 'CA', 96013),
('L10620', 'Matawan', 'NJ', 7747),
('L10621', 'Maywood', 'NJ', 7607),
('L10622', 'Medford', 'NJ', 8055),
('L10623', 'Mendham To', 'NJ', 7945),
('L10624', 'Mercervill', 'NJ', 8619),
('L10625', 'Mercervill', 'NJ', 8690),
('L10626', 'Merchantvi', 'NJ', 8109),
('L10627', 'Metuchen', 'NJ', 8840),
('L10628', 'Middle Tow', 'NJ', 8210),
('L10629', 'Middlesex', 'NJ', 8846),
('L1063', 'Cabazon', 'CA', 92230),
('L10630', 'Middletown', 'NJ', 7718),
('L10631', 'Middletown', 'NJ', 7737),
('L10632', 'Middletown', 'NJ', 7748),
('L10633', 'Middletown', 'NJ', 7758),
('L10634', 'Midland Pa', 'NJ', 7432),
('L10635', 'Millburn', 'NJ', 7041),
('L10636', 'Millstone ', 'NJ', 8510),
('L10637', 'Millstone ', 'NJ', 8535),
('L10638', 'Milltown', 'NJ', 8850),
('L10639', 'Millville', 'NJ', 8332),
('L1064', 'Calabasas', 'CA', 91302),
('L10640', 'Mine Hill', 'NJ', 7803),
('L10641', 'Monmouth B', 'NJ', 7750),
('L10642', 'Monroe Tow', 'NJ', 8094),
('L10643', 'Monroe Tow', 'NJ', 8831),
('L10644', 'Montague', 'NJ', 7827),
('L10645', 'Montclair', 'NJ', 7042),
('L10646', 'Montclair', 'NJ', 7043),
('L10647', 'Montgomery', 'NJ', 8502),
('L10648', 'Montgomery', 'NJ', 8558),
('L10649', 'Montvale', 'NJ', 7645),
('L1065', 'California', 'CA', 93505),
('L10650', 'Montville', 'NJ', 7045),
```

```
('L10651', 'Montville', 'NJ', 7058),
('L10652', 'Montville', 'NJ', 7082),
('L10653', 'Moorestown', 'NJ', 8057),
('L10654', 'Morganvill', 'NJ', 7751),
('L10655', 'Morris Tow', 'NJ', 7960),
('L10656', 'Mount Arli', 'NJ', 7856),
('L10657', 'Mount Ephr', 'NJ', 8059),
('L10658', 'Mountain L', 'NJ', 7046),
('L10659', 'Mountainsi', 'NJ', 7092),
('L1066', 'Calimesa', 'CA', 92320),
('L10660', 'Mt Holly T', 'NJ', 8060),
('L10661', 'Mt Laurel ', 'NJ', 8054),
('L10662', 'Mt Olive T', 'NJ', 7836),
('L10663', 'Mystic Isl', 'NJ', 8087),
('L10664', 'National P', 'NJ', 8063),
('L10665', 'Neptune', 'NJ', 7753),
('L10666', 'Netcong', 'NJ', 7857),
('L10667', 'New Brunsw', 'NJ', 8901),
('L10668', 'New Milfor', 'NJ', 7646),
('L10669', 'New Provid', 'NJ', 7974),
('L1067', 'Calistoga', 'CA', 94515),
('L10670', 'Newark', 'NJ', 7102),
('L10671', 'Newark', 'NJ', 7103),
('L10672', 'Newark', 'NJ', 7104),
('L10673', 'Newark', 'NJ', 7105),
('L10674', 'Newark', 'NJ', 7106),
('L10675', 'Newark', 'NJ', 7107),
('L10676', 'Newark', 'NJ', 7108),
('L10677', 'Newark', 'NJ', 7112),
('L10678', 'Newark', 'NJ', 7114),
('L10679', 'Newton', 'NJ', 7860),
('L1068', 'Camarillo', 'CA', 93010),
('L10680', 'North Berg', 'NJ', 7047),
('L10681', 'North Brun', 'NJ', 8902),
('L10682', 'North Hale', 'NJ', 7508),
('L10683', 'North Hano', 'NJ', 8562),
('L10684', 'North Wild', 'NJ', 8260),
('L10685', 'Northfield', 'NJ', 8225),
('L10686', 'Northvale', 'NJ', 7647),
('L10687', 'Norwood', 'NJ', 7648),
('L10688', 'Nutley', 'NJ', 7110),
('L10689', 'Oak Valley', 'NJ', 8090),
('L1069', 'Camarillo', 'CA', 93012),
('L10690', 'Oakhurst', 'NJ', 7755),
('L10691', 'Oakland', 'NJ', 7436),
('L10692', 'Oaklyn', 'NJ', 8107),
('L10693', 'Ocean Acre', 'NJ', 8050),
```

```
('L10694', 'Ocean City', 'NJ', 8226),
('L10695', 'Ocean Gate', 'NJ', 8740),
('L10696', 'Ocean Grov', 'NJ', 7756),
('L10697', 'Ocean Town', 'NJ', 8758),
('L10698', 'Oceanport', 'NJ', 7757),
('L10699', 'Ogdensburg', 'NJ', 7439),
('L107', 'Clay', 'AL', 35126),
('L1070', 'Cambria', 'CA', 93428),
('L10700', 'Old Bridge', 'NJ', 8857),
('L10701', 'Oldmans', 'NJ', 8067),
('L10702', 'Oradell', 'NJ', 7649),
('L10703', 'Orange', 'NJ', 7050),
('L10704', 'Oxford Tow', 'NJ', 7863),
('L10705', 'Palisades ', 'NJ', 7650),
('L10706', 'Palmyra', 'NJ', 8065),
('L10707', 'Paramus', 'NJ', 7652),
('L10708', 'Park Ridge', 'NJ', 7656),
('L10709', 'Parsippany', 'NJ', 7034),
('L1071', 'Camino', 'CA', 95709),
('L10710', 'Parsippany', 'NJ', 7054),
('L10711', 'Parsippany', 'NJ', 7950),
('L10712', 'Passaic', 'NJ', 7055),
('L10713', 'Paterson', 'NJ', 7501),
('L10714', 'Paterson', 'NJ', 7502),
('L10715', 'Paterson', 'NJ', 7503),
('L10716', 'Paterson', 'NJ', 7504),
('L10717', 'Paterson', 'NJ', 7513),
('L10718', 'Paterson', 'NJ', 7514),
('L10719', 'Paterson', 'NJ', 7522),
('L1072', 'Campbell', 'CA', 95008),
('L10720', 'Paterson', 'NJ', 7524),
('L10721', 'Paulsboro', 'NJ', 8066),
('L10722', 'Peapack', 'NJ', 7934),
('L10723', 'Pemberton ', 'NJ', 8068),
('L10724', 'Pennsauken', 'NJ', 8110),
('L10725', 'Pequannock', 'NJ', 7440),
('L10726', 'Pequannock', 'NJ', 7444),
('L10727', 'Perth Ambo', 'NJ', 8861),
('L10728', 'Phillipsbu', 'NJ', 8865),
('L10729', 'Pine Beach', 'NJ', 8741),
('L1073', 'Campo', 'CA', 91906),
('L10730', 'Piscataway', 'NJ', 8854),
('L10731', 'Pitman', 'NJ', 8071),
('L10732', 'Plainfield', 'NJ', 7060),
('L10733', 'Plainfield', 'NJ', 7062),
('L10734', 'Plainfield', 'NJ', 7063),
('L10735', 'Plainsboro', 'NJ', 8536),
```

```
('L10736', 'Pleasantvi', 'NJ', 8232),
('L10737', 'Plumsted', 'NJ', 8533),
('L10738', 'Point Plea', 'NJ', 8742),
('L10739', 'Pompton La', 'NJ', 7442),
('L1074', 'Canyon Lak', 'CA', 92587),
('L10740', 'Port Norri', 'NJ', 8349),
('L10741', 'Port Readi', 'NJ', 7064),
('L10742', 'Port Repub', 'NJ', 8241),
('L10743', 'Princeton', 'NJ', 8540),
('L10744', 'Princeton', 'NJ', 8542),
('L10745', 'Rahway', 'NJ', 7065),
('L10746', 'Ramsey', 'NJ', 7446),
('L10747', 'Randolph', 'NJ', 7869),
('L10748', 'Raritan', 'NJ', 8869),
('L10749', 'Raritan To', 'NJ', 8822),
('L1075', 'Capitola', 'CA', 95010),
('L10750', 'Readington', 'NJ', 8887),
('L10751', 'Red Bank', 'NJ', 7701),
('L10752', 'Ridgewood', 'NJ', 7450),
('L10753', 'Ringwood', 'NJ', 7456),
('L10754', 'Rio Grande', 'NJ', 8242),
('L10755', 'River Vale', 'NJ', 7675),
('L10756', 'Riverdale', 'NJ', 7457),
('L10757', 'Robbinsvil', 'NJ', 8691),
('L10758', 'Rochelle P', 'NJ', 7662),
('L10759', 'Rockaway T', 'NJ', 7435),
('L1076', 'Carlsbad', 'CA', 92008),
('L10760', 'Rockaway T', 'NJ', 7866),
('L10761', 'Roseland', 'NJ', 7068),
('L10762', 'Roselle', 'NJ', 7203),
('L10763', 'Roselle Pa', 'NJ', 7204),
('L10764', 'Roxbury To', 'NJ', 7850),
('L10765', 'Roxbury To', 'NJ', 7852),
('L10766', 'Rumson', 'NJ', 7760),
('L10767', 'Runnemede', 'NJ', 8078),
('L10768', 'Saddle Bro', 'NJ', 7663),
('L10769', 'Sayreville', 'NJ', 8872),
('L1077', 'Carlsbad', 'CA', 92009),
('L10770', 'Scotch Pla', 'NJ', 7076),
('L10771', 'Secaucus', 'NJ', 7094),
('L10772', 'Sewaren', 'NJ', 7077),
('L10773', 'Short Hill', 'NJ', 7078),
('L10774', 'Shrewsbury', 'NJ', 7702),
('L10775', 'Somerdale', 'NJ', 8083),
('L10776', 'Somers Poi', 'NJ', 8244),
('L10777', 'South Ambo', 'NJ', 8879),
('L10778', 'South Boun', 'NJ', 8880),
```

```
('L10779', 'South Brun', 'NJ', 8824),
('L1078', 'Carlsbad', 'CA', 92010),
('L10780', 'South Brun', 'NJ', 8852),
('L10781', 'South Oran', 'NJ', 7079),
('L10782', 'South Plai', 'NJ', 7080),
('L10783', 'South Rive', 'NJ', 8882),
('L10784', 'Southampto', 'NJ', 8088),
('L10785', 'Sparta', 'NJ', 7871),
('L10786', 'Spotswood', 'NJ', 8884),
('L10787', 'Springfiel', 'NJ', 7081),
('L10788', 'Stanhope', 'NJ', 7874),
('L10789', 'Stratford', 'NJ', 8084),
('L1079', 'Carlsbad', 'CA', 92011),
('L10790', 'Succasunna', 'NJ', 7847),
('L10791', 'Succasunna', 'NJ', 7876),
('L10792', 'Summit', 'NJ', 7901),
('L10793', 'Teaneck', 'NJ', 7666),
('L10794', 'Tenafly', 'NJ', 7670),
('L10795', 'Tewksbury ', 'NJ', 7830),
('L10796', 'Tinton Fal', 'NJ', 7724),
('L10797', 'Toms River', 'NJ', 8753),
('L10798', 'Toms River', 'NJ', 8755),
('L10799', 'Totowa', 'NJ', 7512),
('L108', 'Cleveland', 'AL', 35049),
('L1080', 'Carmel', 'CA', 93923),
('L10800', 'Trenton', 'NJ', 8609),
('L10801', 'Trenton', 'NJ', 8611),
('L10802', 'Trenton', 'NJ', 8618),
('L10803', 'Trenton', 'NJ', 8629),
('L10804', 'Union', 'NJ', 7083),
('L10805', 'Union', 'NJ', 7088),
('L10806', 'Union Beac', 'NJ', 7735),
('L10807', 'Union City', 'NJ', 7087),
('L10808', 'Upper Free', 'NJ', 8501),
('L10809', 'Upper Free', 'NJ', 8514),
('L1081', 'Carmel Val', 'CA', 93924),
('L10810', 'Upper Sadd', 'NJ', 7458),
('L10811', 'Upper Town', 'NJ', 8223),
('L10812', 'Upper Town', 'NJ', 8230),
('L10813', 'Upper Town', 'NJ', 8270),
('L10814', 'Vernon Tow', 'NJ', 7420),
('L10815', 'Vernon Tow', 'NJ', 7462),
('L10816', 'Vernon Val', 'NJ', 7418),
('L10817', 'Verona', 'NJ', 7044),
('L10818', 'Villas', 'NJ', 8251),
('L10819', 'Vineland', 'NJ', 8360),
('L1082', 'Carmichael', 'CA', 95608),
```

```
('L10820', 'Vineland', 'NJ', 8361),
('L10821', 'Voorhees', 'NJ', 8043),
('L10822', 'Waldwick', 'NJ', 7463),
('L10823', 'Wall Towns', 'NJ', 7719),
('L10824', 'Wanaque', 'NJ', 7465),
('L10825', 'Wantage To', 'NJ', 7461),
('L10826', 'Warren', 'NJ', 7059),
('L10827', 'Washington', 'NJ', 7676),
('L10828', 'Washington', 'NJ', 7882),
('L10829', 'Washington', 'NJ', 8012),
('L1083', 'Carnelian ', 'CA', 96140),
('L10830', 'Washington', 'NJ', 8080),
('L10831', 'Watchung', 'NJ', 7069),
('L10832', 'Waterford', 'NJ', 8004),
('L10833', 'Wayne', 'NJ', 7470),
('L10834', 'Weehawken', 'NJ', 7086),
('L10835', 'West Caldw', 'NJ', 7006),
('L10836', 'West Deptf', 'NJ', 8086),
('L10837', 'West Long ', 'NJ', 7764),
('L10838', 'West Milfo', 'NJ', 7480),
('L10839', 'West New Y', 'NJ', 7093),
('L1084', 'Carpinteri', 'CA', 93013),
('L10840', 'West Orang', 'NJ', 7052),
('L10841', 'West Winds', 'NJ', 8550),
('L10842', 'Westfield', 'NJ', 7090),
('L10843', 'Westville', 'NJ', 8093),
('L10844', 'Weymouth T', 'NJ', 8317),
('L10845', 'Wharton', 'NJ', 7885),
('L10846', 'Whitehouse', 'NJ', 8889),
('L10847', 'Willingbor', 'NJ', 8046),
('L10848', 'Woodbridge', 'NJ', 7095),
('L10849', 'Woodbury H', 'NJ', 8097),
('L1085', 'Carson', 'CA', 90745),
('L10850', 'Woodcliff ', 'NJ', 7677),
('L10851', 'Woolwich T', 'NJ', 8085),
('L10852', 'Wyckoff', 'NJ', 7481),
('L10853', 'Yardville-', 'NJ', 8620),
('L10854', 'Alamogordo', 'NM', 88310),
('L10855', 'Albuquerqu', 'NM', 87102),
('L10856', 'Albuquerqu', 'NM', 87104),
('L10857', 'Albuquerqu', 'NM', 87106),
('L10858', 'Albuquerqu', 'NM', 87107),
('L10859', 'Albuquerqu', 'NM', 87108),
('L1086', 'Carson', 'CA', 90746),
('L10860', 'Albuquerqu', 'NM', 87109),
('L10861', 'Albuquerqu', 'NM', 87110),
('L10862', 'Albuquerqu', 'NM', 87111),
```

```
('L10863', 'Albuquerqu', 'NM', 87112),
('L10864', 'Albuquerqu', 'NM', 87113),
('L10865', 'Albuquerqu', 'NM', 87114),
('L10866', 'Albuquerqu', 'NM', 87120),
('L10867', 'Albuquerqu', 'NM', 87121),
('L10868', 'Albuquerqu', 'NM', 87123),
('L10869', 'Alto', 'NM', 88312),
('L1087', 'Caruthers', 'CA', 93609),
('L10870', 'Angel Fire', 'NM', 87710),
('L10871', 'Anthony', 'NM', 88021),
('L10872', 'Artesia', 'NM', 88210),
('L10873', 'Aztec', 'NM', 87410),
('L10874', 'Bayard', 'NM', 88023),
('L10875', 'Belen', 'NM', 87002),
('L10876', 'Bernalillo', 'NM', 87004),
('L10877', 'Bloomfield', 'NM', 87413),
('L10878', 'Bosque Far', 'NM', 87068),
('L10879', 'Carlsbad', 'NM', 88220),
('L1088', 'Castaic', 'CA', 91384),
('L10880', 'Cedar Cres', 'NM', 87008),
('L10881', 'Cerrillos', 'NM', 87010),
('L10882', 'Chaparral', 'NM', 88081),
('L10883', 'Cimarron', 'NM', 87714),
('L10884', 'Clayton', 'NM', 88415),
('L10885', 'Corrales', 'NM', 87048),
('L10886', 'Deming', 'NM', 88030),
('L10887', 'Dexter', 'NM', 88230),
('L10888', 'Edgewood', 'NM', 87015),
('L10889', 'Espanola', 'NM', 87532),
('L1089', 'Castro Val', 'CA', 94546),
('L10890', 'Farmington', 'NM', 87401),
('L10891', 'Farmington', 'NM', 87402),
('L10892', 'Gallup', 'NM', 87301),
('L10893', 'Gallup', 'NM', 87321),
('L10894', 'Grants', 'NM', 87014),
('L10895', 'Grants', 'NM', 87020),
('L10896', 'Grants', 'NM', 87021),
('L10897', 'Hobbs', 'NM', 88240),
('L10898', 'Hobbs', 'NM', 88242),
…]
```

[5]: `%sql SELECT * FROM property_type;`

```
 * mysql://studentuser:***@localhost/capstone
16 rows affected.
```

```
[5]: [('R1', 'apartment', '1', 'Y', 'Y'),
     ('R10', 'house', '1', 'Y', 'N'),
     ('R11', 'house', '1', 'N', 'Y'),
     ('R12', 'house', '1', 'N', 'N'),
     ('R13', 'house', '2', 'Y', 'Y'),
     ('R14', 'house', '2', 'Y', 'N'),
     ('R15', 'house', '2', 'N', 'Y'),
     ('R16', 'house', '2', 'N', 'N'),
     ('R2', 'apartment', '1', 'Y', 'N'),
     ('R3', 'apartment', '1', 'N', 'Y'),
     ('R4', 'apartment', '1', 'N', 'N'),
     ('R5', 'apartment', '2', 'Y', 'Y'),
     ('R6', 'apartment', '2', 'Y', 'N'),
     ('R7', 'apartment', '2', 'N', 'Y'),
     ('R8', 'apartment', '2', 'N', 'N'),
     ('R9', 'house', '1', 'Y', 'Y')]
```

```
[ ]: ## Selected certain attributes of Watershed Property "W106"
```

```
[37]: %%sql SELECT wpi.ws_property_id, p.apt_house, p.num_bedrooms, wpi.location, l.
      ↪city, l.state, l.zipcode from watershed_property_info as wpi, location as l,
      ↪property_type as p
      WHERE wpi.location = l.location_id AND wpi.property_type = p.property_type_id
      ↪AND wpi.ws_property_id = "W106";
```

```
 * mysql://studentuser:***@localhost/capstone
1 rows affected.
```

```
[37]: [('W106', 'apartment', '2', 'L15260', 'Austin', 'TX', 78705)]
```

```
[ ]: ## How many waytershed property has kitchens
```

```
[8]: %%sql
     SELECT COUNT(wpi.ws_property_id), p.kitchen FROM watershed_property_info as wpi
     INNER JOIN property_type as p
     ON wpi.property_type = p.property_type_id
     GROUP BY p.kitchen;
```

```
 * mysql://studentuser:***@localhost/capstone
1 rows affected.
```

```
[8]: [(244, 'Y')]
```

```
[ ]: %sql SELECT * FROM st_rental_dates
```

```
[ ]: # Extract city, state, zipcode of Watershed Properties
```

```sql
%%sql
SELECT l.location_id, l.city, l.state, l.zipcode, w.ws_property_id, w.
 →property_type, w.current_monthly_rent FROM location as l
INNER JOIN watershed_property_info as w
ON l.location_id = w.location;
```

 * mysql://studentuser:***@localhost/capstone
244 rows affected.

[7]: [('L9531', 'Chapel Hill', 'NC', 27514, 'W1', 'R6', 1060),
 ('L9533', 'Chapel Hill', 'NC', 27517, 'W10', 'R6', 1200),
 ('L1944', 'San Francisco', 'CA', 94129, 'W100', 'R2', 3300),
 ('L15257', 'Austin', 'TX', 78702, 'W101', 'R2', 1400),
 ('L15257', 'Austin', 'TX', 78702, 'W102', 'R6', 2000),
 ('L15257', 'Austin', 'TX', 78702, 'W103', 'R10', 1600),
 ('L15257', 'Austin', 'TX', 78702, 'W104', 'R14', 2800),
 ('L15260', 'Austin', 'TX', 78705, 'W105', 'R2', 1100),
 ('L15260', 'Austin', 'TX', 78705, 'W106', 'R6', 1900),
 ('L15260', 'Austin', 'TX', 78705, 'W107', 'R10', 1800),
 ('L15260', 'Austin', 'TX', 78705, 'W108', 'R14', 3200),
 ('L15264', 'Austin', 'TX', 78723, 'W109', 'R2', 1000),
 ('L9533', 'Chapel Hill', 'NC', 27517, 'W11', 'R10', 1000),
 ('L15264', 'Austin', 'TX', 78723, 'W110', 'R6', 1300),
 ('L15264', 'Austin', 'TX', 78723, 'W111', 'R10', 1200),
 ('L15264', 'Austin', 'TX', 78723, 'W112', 'R14', 1600),
 ('L15278', 'Austin', 'TX', 78744, 'W113', 'R2', 800),
 ('L15278', 'Austin', 'TX', 78744, 'W114', 'R6', 1200),
 ('L15278', 'Austin', 'TX', 78744, 'W115', 'R10', 900),
 ('L15278', 'Austin', 'TX', 78744, 'W116', 'R14', 1100),
 ('L15280', 'Austin', 'TX', 78746, 'W117', 'R2', 1000),
 ('L15280', 'Austin', 'TX', 78746, 'W118', 'R6', 1400),
 ('L15280', 'Austin', 'TX', 78746, 'W119', 'R10', 1500),
 ('L9533', 'Chapel Hill', 'NC', 27517, 'W12', 'R14', 1300),
 ('L15280', 'Austin', 'TX', 78746, 'W120', 'R14', 1600),
 ('L463', 'Bentonville', 'AR', 72712, 'W121', 'R2', 600),
 ('L463', 'Bentonville', 'AR', 72712, 'W122', 'R6', 800),
 ('L463', 'Bentonville', 'AR', 72712, 'W123', 'R10', 700),
 ('L463', 'Bentonville', 'AR', 72712, 'W124', 'R14', 1000),
 ('L464', 'Bentonville', 'AR', 72719, 'W125', 'R2', 700),
 ('L464', 'Bentonville', 'AR', 72719, 'W126', 'R6', 900),
 ('L464', 'Bentonville', 'AR', 72719, 'W127', 'R10', 1000),
 ('L464', 'Bentonville', 'AR', 72719, 'W128', 'R14', 1200),
 ('L2314', 'Denver', 'CO', 80204, 'W129', 'R2', 1200),
 ('L9534', 'Chapel Hill', 'NC', 27707, 'W13', 'R6', 920),
 ('L2314', 'Denver', 'CO', 80204, 'W130', 'R6', 1300),
 ('L2314', 'Denver', 'CO', 80204, 'W131', 'R10', 1100),
 ('L2314', 'Denver', 'CO', 80204, 'W132', 'R14', 1200),

```
('L2318', 'Denver', 'CO', 80209, 'W133', 'R2', 1300),
('L2318', 'Denver', 'CO', 80209, 'W134', 'R6', 1700),
('L2318', 'Denver', 'CO', 80209, 'W135', 'R10', 1200),
('L2318', 'Denver', 'CO', 80209, 'W136', 'R14', 1900),
('L2323', 'Denver', 'CO', 80218, 'W137', 'R2', 1000),
('L2323', 'Denver', 'CO', 80218, 'W138', 'R6', 1500),
('L2323', 'Denver', 'CO', 80218, 'W139', 'R10', 1300),
('L9534', 'Chapel Hill', 'NC', 27707, 'W14', 'R10', 850),
('L2323', 'Denver', 'CO', 80218, 'W140', 'R14', 1800),
('L2325', 'Denver', 'CO', 80220, 'W141', 'R2', 1100),
('L2325', 'Denver', 'CO', 80220, 'W142', 'R6', 1400),
('L2325', 'Denver', 'CO', 80220, 'W143', 'R10', 1300),
('L2325', 'Denver', 'CO', 80220, 'W144', 'R14', 1900),
('L2338', 'Denver', 'CO', 80249, 'W145', 'R2', 900),
('L2338', 'Denver', 'CO', 80249, 'W146', 'R6', 1400),
('L2338', 'Denver', 'CO', 80249, 'W147', 'R10', 1400),
('L2338', 'Denver', 'CO', 80249, 'W148', 'R14', 1700),
('L3244', 'Miami', 'FL', 33122, 'W149', 'R2', 800),
('L9534', 'Chapel Hill', 'NC', 27707, 'W15', 'R14', 900),
('L3244', 'Miami', 'FL', 33122, 'W150', 'R6', 1300),
('L3244', 'Miami', 'FL', 33122, 'W151', 'R10', 1400),
('L3244', 'Miami', 'FL', 33122, 'W152', 'R14', 1900),
('L3256', 'Miami', 'FL', 33137, 'W153', 'R2', 1700),
('L3256', 'Miami', 'FL', 33137, 'W154', 'R6', 2400),
('L3256', 'Miami', 'FL', 33137, 'W155', 'R10', 2100),
('L3256', 'Miami', 'FL', 33137, 'W156', 'R14', 3200),
('L3261', 'Miami', 'FL', 33146, 'W157', 'R2', 1300),
('L3261', 'Miami', 'FL', 33146, 'W158', 'R6', 1700),
('L3261', 'Miami', 'FL', 33146, 'W159', 'R10', 1400),
('L9534', 'Chapel Hill', 'NC', 27707, 'W16', 'R2', 750),
('L3261', 'Miami', 'FL', 33146, 'W160', 'R14', 1900),
('L3262', 'Miami', 'FL', 33149, 'W161', 'R2', 1600),
('L3262', 'Miami', 'FL', 33149, 'W162', 'R6', 2200),
('L3262', 'Miami', 'FL', 33149, 'W163', 'R10', 1500),
('L3262', 'Miami', 'FL', 33149, 'W164', 'R14', 2400),
('L3264', 'Miami', 'FL', 33178, 'W165', 'R2', 1600),
('L3264', 'Miami', 'FL', 33178, 'W166', 'R6', 1900),
('L3264', 'Miami', 'FL', 33178, 'W167', 'R10', 1400),
('L3264', 'Miami', 'FL', 33178, 'W168', 'R14', 2000),
('L10126', 'Omaha', 'NE', 68046, 'W169', 'R2', 1000),
('L4761', 'Chicago', 'IL', 60607, 'W17', 'R6', 2500),
('L10126', 'Omaha', 'NE', 68046, 'W170', 'R6', 1400),
('L10126', 'Omaha', 'NE', 68046, 'W171', 'R10', 1300),
('L10126', 'Omaha', 'NE', 68046, 'W172', 'R14', 1800),
('L10130', 'Omaha', 'NE', 68106, 'W173', 'R2', 700),
('L10130', 'Omaha', 'NE', 68106, 'W174', 'R6', 900),
('L10130', 'Omaha', 'NE', 68106, 'W175', 'R10', 1000),
```

```
('L10130', 'Omaha', 'NE', 68106, 'W176', 'R14', 1200),
('L10133', 'Omaha', 'NE', 68110, 'W177', 'R2', 700),
('L10133', 'Omaha', 'NE', 68110, 'W178', 'R6', 1000),
('L10133', 'Omaha', 'NE', 68110, 'W179', 'R10', 800),
('L4761', 'Chicago', 'IL', 60607, 'W18', 'R10', 2500),
('L10133', 'Omaha', 'NE', 68110, 'W180', 'R14', 900),
('L10136', 'Omaha', 'NE', 68114, 'W181', 'R2', 700),
('L10136', 'Omaha', 'NE', 68114, 'W182', 'R6', 1000),
('L10136', 'Omaha', 'NE', 68114, 'W183', 'R10', 900),
('L10136', 'Omaha', 'NE', 68114, 'W184', 'R14', 1200),
('L1882', 'San Diego', 'CA', 91910, 'W185', 'R2', 1100),
('L1882', 'San Diego', 'CA', 91910, 'W186', 'R6', 1400),
('L1882', 'San Diego', 'CA', 91910, 'W187', 'R10', 1300),
('L1882', 'San Diego', 'CA', 91910, 'W188', 'R14', 1900),
('L1883', 'San Diego', 'CA', 91950, 'W189', 'R2', 900),
('L4761', 'Chicago', 'IL', 60607, 'W19', 'R14', 2800),
('L1883', 'San Diego', 'CA', 91950, 'W190', 'R6', 1100),
('L1883', 'San Diego', 'CA', 91950, 'W191', 'R10', 1300),
('L1883', 'San Diego', 'CA', 91950, 'W192', 'R14', 1600),
('L1887', 'San Diego', 'CA', 92102, 'W193', 'R2', 1400),
('L1887', 'San Diego', 'CA', 92102, 'W194', 'R6', 2000),
('L1887', 'San Diego', 'CA', 92102, 'W195', 'R10', 1700),
('L1887', 'San Diego', 'CA', 92102, 'W196', 'R14', 2500),
('L1902', 'San Diego', 'CA', 92118, 'W197', 'R2', 1800),
('L1902', 'San Diego', 'CA', 92118, 'W198', 'R6', 2600),
('L1902', 'San Diego', 'CA', 92118, 'W199', 'R10', 2500),
('L9531', 'Chapel Hill', 'NC', 27514, 'W2', 'R10', 1500),
('L4761', 'Chicago', 'IL', 60607, 'W20', 'R2', 1700),
('L1902', 'San Diego', 'CA', 92118, 'W200', 'R14', 3600),
('L1916', 'San Diego', 'CA', 92154, 'W201', 'R2', 1200),
('L1916', 'San Diego', 'CA', 92154, 'W202', 'R6', 1600),
('L1916', 'San Diego', 'CA', 92154, 'W203', 'R10', 1000),
('L1916', 'San Diego', 'CA', 92154, 'W204', 'R14', 1500),
('L12252', 'Columbus', 'OH', 43201, 'W205', 'R2', 750),
('L12252', 'Columbus', 'OH', 43201, 'W206', 'R6', 1040),
('L12252', 'Columbus', 'OH', 43201, 'W207', 'R10', 900),
('L12252', 'Columbus', 'OH', 43201, 'W208', 'R14', 1400),
('L12260', 'Columbus', 'OH', 43212, 'W209', 'R2', 825),
('L4765', 'Chicago', 'IL', 60611, 'W21', 'R6', 2700),
('L12260', 'Columbus', 'OH', 43212, 'W210', 'R6', 1300),
('L12260', 'Columbus', 'OH', 43212, 'W211', 'R10', 1000),
('L12260', 'Columbus', 'OH', 43212, 'W212', 'R14', 1480),
('L12264', 'Columbus', 'OH', 43222, 'W213', 'R2', 650),
('L12264', 'Columbus', 'OH', 43222, 'W214', 'R6', 920),
('L12264', 'Columbus', 'OH', 43222, 'W215', 'R10', 880),
('L12264', 'Columbus', 'OH', 43222, 'W216', 'R14', 1200),
('L16888', 'Richmond', 'VA', 23113, 'W217', 'R2', 1000),
```

```
('L16888', 'Richmond', 'VA', 23113, 'W218', 'R6', 1200),
('L16888', 'Richmond', 'VA', 23113, 'W219', 'R10', 1400),
('L4765', 'Chicago', 'IL', 60611, 'W22', 'R10', 2700),
('L16888', 'Richmond', 'VA', 23113, 'W220', 'R14', 1600),
('L16887', 'Richmond', 'VA', 23060, 'W221', 'R2', 1105),
('L16887', 'Richmond', 'VA', 23060, 'W222', 'R6', 1665),
('L16887', 'Richmond', 'VA', 23060, 'W223', 'R10', 1175),
('L16887', 'Richmond', 'VA', 23060, 'W224', 'R14', 1725),
('L16898', 'Richmond', 'VA', 23234, 'W225', 'R2', 709),
('L16898', 'Richmond', 'VA', 23234, 'W226', 'R6', 869),
('L16898', 'Richmond', 'VA', 23234, 'W227', 'R10', 925),
('L16898', 'Richmond', 'VA', 23234, 'W228', 'R14', 1350),
('L16890', 'Richmond', 'VA', 23220, 'W229', 'R2', 900),
('L4765', 'Chicago', 'IL', 60611, 'W23', 'R14', 3200),
('L16890', 'Richmond', 'VA', 23220, 'W230', 'R6', 1325),
('L16890', 'Richmond', 'VA', 23220, 'W231', 'R10', 975),
('L16890', 'Richmond', 'VA', 23220, 'W232', 'R14', 1550),
('L14416', 'Charleston', 'SC', 29438, 'W233', 'R2', 1165),
('L14416', 'Charleston', 'SC', 29438, 'W234', 'R6', 1625),
('L14416', 'Charleston', 'SC', 29438, 'W235', 'R10', 1400),
('L14416', 'Charleston', 'SC', 29438, 'W236', 'R14', 1995),
('L14418', 'Charleston', 'SC', 29470, 'W237', 'R2', 760),
('L14418', 'Charleston', 'SC', 29470, 'W238', 'R6', 965),
('L14418', 'Charleston', 'SC', 29470, 'W239', 'R10', 1185),
('L4765', 'Chicago', 'IL', 60611, 'W24', 'R2', 1700),
('L14418', 'Charleston', 'SC', 29470, 'W240', 'R14', 1340),
('L14419', 'Charleston', 'SC', 29487, 'W241', 'R2', 1150),
('L14419', 'Charleston', 'SC', 29487, 'W242', 'R6', 2000),
('L14419', 'Charleston', 'SC', 29487, 'W243', 'R10', 1600),
('L14419', 'Charleston', 'SC', 29487, 'W244', 'R14', 2150),
('L4770', 'Chicago', 'IL', 60616, 'W25', 'R2', 1600),
('L4770', 'Chicago', 'IL', 60616, 'W26', 'R6', 2100),
('L4770', 'Chicago', 'IL', 60616, 'W27', 'R10', 1200),
('L4770', 'Chicago', 'IL', 60616, 'W28', 'R14', 2100),
('L4794', 'Chicago', 'IL', 60642, 'W29', 'R6', 2500),
('L9531', 'Chapel Hill', 'NC', 27514, 'W3', 'R14', 2000),
('L4794', 'Chicago', 'IL', 60642, 'W30', 'R10', 2500),
('L4794', 'Chicago', 'IL', 60642, 'W31', 'R14', 2750),
('L4794', 'Chicago', 'IL', 60642, 'W32', 'R2', 1800),
('L4804', 'Chicago', 'IL', 60654, 'W33', 'R6', 3000),
('L4804', 'Chicago', 'IL', 60654, 'W34', 'R10', 2000),
('L4804', 'Chicago', 'IL', 60654, 'W35', 'R14', 2950),
('L4804', 'Chicago', 'IL', 60654, 'W36', 'R2', 1700),
('L11419', 'New York', 'NY', 10002, 'W37', 'R2', 3000),
('L11419', 'New York', 'NY', 10002, 'W38', 'R6', 3200),
('L11421', 'New York', 'NY', 10004, 'W39', 'R6', 4500),
('L9531', 'Chapel Hill', 'NC', 27514, 'W4', 'R2', 800),
```

```
('L11421', 'New York', 'NY', 10004, 'W40', 'R10', 4500),
('L11421', 'New York', 'NY', 10004, 'W41', 'R14', 5500),
('L11421', 'New York', 'NY', 10004, 'W42', 'R2', 3500),
('L11427', 'New York', 'NY', 10014, 'W43', 'R6', 4000),
('L11427', 'New York', 'NY', 10014, 'W44', 'R2', 3000),
('L11431', 'New York', 'NY', 10019, 'W45', 'R6', 5600),
('L11431', 'New York', 'NY', 10019, 'W46', 'R10', 3200),
('L11431', 'New York', 'NY', 10019, 'W47', 'R14', 3500),
('L11431', 'New York', 'NY', 10019, 'W48', 'R2', 3400),
('L11434', 'New York', 'NY', 10023, 'W49', 'R6', 4200),
('L9532', 'Chapel Hill', 'NC', 27516, 'W5', 'R6', 1100),
('L11434', 'New York', 'NY', 10023, 'W50', 'R10', 3000),
('L11434', 'New York', 'NY', 10023, 'W51', 'R14', 3900),
('L11434', 'New York', 'NY', 10023, 'W52', 'R2', 3600),
('L11480', 'New York', 'NY', 11101, 'W53', 'R6', 3500),
('L11480', 'New York', 'NY', 11101, 'W54', 'R10', 2500),
('L11480', 'New York', 'NY', 11101, 'W55', 'R14', 3000),
('L11480', 'New York', 'NY', 11101, 'W56', 'R2', 3000),
('L11495', 'New York', 'NY', 11211, 'W57', 'R6', 3900),
('L11495', 'New York', 'NY', 11211, 'W58', 'R10', 2800),
('L11495', 'New York', 'NY', 11211, 'W59', 'R14', 3500),
('L9532', 'Chapel Hill', 'NC', 27516, 'W6', 'R10', 900),
('L11495', 'New York', 'NY', 11211, 'W60', 'R2', 2600),
('L1734', 'Palo Alto', 'CA', 94025, 'W61', 'R6', 2695),
('L1734', 'Palo Alto', 'CA', 94025, 'W62', 'R10', 3000),
('L1734', 'Palo Alto', 'CA', 94025, 'W63', 'R14', 4000),
('L1734', 'Palo Alto', 'CA', 94025, 'W64', 'R2', 2295),
('L1735', 'Palo Alto', 'CA', 94301, 'W65', 'R6', 3000),
('L1735', 'Palo Alto', 'CA', 94301, 'W66', 'R10', 3300),
('L1735', 'Palo Alto', 'CA', 94301, 'W67', 'R14', 4500),
('L1735', 'Palo Alto', 'CA', 94301, 'W68', 'R2', 2700),
('L1736', 'Palo Alto', 'CA', 94303, 'W69', 'R2', 2700),
('L9532', 'Chapel Hill', 'NC', 27516, 'W7', 'R14', 1100),
('L1736', 'Palo Alto', 'CA', 94303, 'W70', 'R6', 3000),
('L1736', 'Palo Alto', 'CA', 94303, 'W71', 'R10', 4500),
('L1736', 'Palo Alto', 'CA', 94303, 'W72', 'R14', 4900),
('L1737', 'Palo Alto', 'CA', 94305, 'W73', 'R6', 3300),
('L1737', 'Palo Alto', 'CA', 94305, 'W74', 'R10', 4500),
('L1737', 'Palo Alto', 'CA', 94305, 'W75', 'R14', 4200),
('L1737', 'Palo Alto', 'CA', 94305, 'W76', 'R2', 2500),
('L1738', 'Palo Alto', 'CA', 94306, 'W77', 'R2', 2500),
('L1738', 'Palo Alto', 'CA', 94306, 'W78', 'R6', 3300),
('L1738', 'Palo Alto', 'CA', 94306, 'W79', 'R10', 4500),
('L9532', 'Chapel Hill', 'NC', 27516, 'W8', 'R2', 500),
('L1738', 'Palo Alto', 'CA', 94306, 'W80', 'R14', 4200),
('L1940', 'San Francisco', 'CA', 94103, 'W81', 'R6', 3600),
('L1940', 'San Francisco', 'CA', 94103, 'W82', 'R10', 4000),
```

```
    ('L1940', 'San Francisco', 'CA', 94103, 'W83', 'R14', 5500),
    ('L1940', 'San Francisco', 'CA', 94103, 'W84', 'R2', 3000),
    ('L1941', 'San Francisco', 'CA', 94110, 'W85', 'R6', 4000),
    ('L1941', 'San Francisco', 'CA', 94110, 'W86', 'R10', 4000),
    ('L1941', 'San Francisco', 'CA', 94110, 'W87', 'R14', 5000),
    ('L1941', 'San Francisco', 'CA', 94110, 'W88', 'R2', 3200),
    ('L1942', 'San Francisco', 'CA', 94112, 'W89', 'R6', 3500),
    ('L9533', 'Chapel Hill', 'NC', 27517, 'W9', 'R2', 965),
    ('L1942', 'San Francisco', 'CA', 94112, 'W90', 'R10', 3200),
    ('L1942', 'San Francisco', 'CA', 94112, 'W91', 'R14', 3500),
    ('L1942', 'San Francisco', 'CA', 94112, 'W92', 'R2', 3000),
    ('L1943', 'San Francisco', 'CA', 94118, 'W93', 'R2', 2600),
    ('L1943', 'San Francisco', 'CA', 94118, 'W94', 'R6', 4000),
    ('L1943', 'San Francisco', 'CA', 94118, 'W95', 'R10', 4000),
    ('L1943', 'San Francisco', 'CA', 94118, 'W96', 'R14', 5100),
    ('L1944', 'San Francisco', 'CA', 94129, 'W97', 'R6', 5600),
    ('L1944', 'San Francisco', 'CA', 94129, 'W98', 'R10', 5000),
    ('L1944', 'San Francisco', 'CA', 94129, 'W99', 'R14', 6000)]
```

[ ]: *# Extracted attributes from location table and Wateshed Table having same*
     location and property type as Watersheds Property

[2]: ```
%%sql
SELECT w.ws_property_id, l.location_id, l.city, l.state, l.zipcode, p.
 apt_house, p.num_bedrooms, p.kitchen, p.shared, w.current_monthly_rent
FROM location as l, property_type as p, watershed_property_info as w
WHERE (l.location_id = w.location) AND (w.property_type = p.property_type_id);
```

     * mysql://studentuser:***@localhost/capstone
    244 rows affected.

[2]: ```
[('W1', 'L9531', 'Chapel Hill', 'NC', 27514, 'apartment', '2', 'Y', 'N', 1060),
 ('W10', 'L9533', 'Chapel Hill', 'NC', 27517, 'apartment', '2', 'Y', 'N', 1200),
 ('W100', 'L1944', 'San Francisco', 'CA', 94129, 'apartment', '1', 'Y', 'N',
3300),
 ('W101', 'L15257', 'Austin', 'TX', 78702, 'apartment', '1', 'Y', 'N', 1400),
 ('W102', 'L15257', 'Austin', 'TX', 78702, 'apartment', '2', 'Y', 'N', 2000),
 ('W103', 'L15257', 'Austin', 'TX', 78702, 'house', '1', 'Y', 'N', 1600),
 ('W104', 'L15257', 'Austin', 'TX', 78702, 'house', '2', 'Y', 'N', 2800),
 ('W105', 'L15260', 'Austin', 'TX', 78705, 'apartment', '1', 'Y', 'N', 1100),
 ('W106', 'L15260', 'Austin', 'TX', 78705, 'apartment', '2', 'Y', 'N', 1900),
 ('W107', 'L15260', 'Austin', 'TX', 78705, 'house', '1', 'Y', 'N', 1800),
 ('W108', 'L15260', 'Austin', 'TX', 78705, 'house', '2', 'Y', 'N', 3200),
 ('W109', 'L15264', 'Austin', 'TX', 78723, 'apartment', '1', 'Y', 'N', 1000),
 ('W11', 'L9533', 'Chapel Hill', 'NC', 27517, 'house', '1', 'Y', 'N', 1000),
 ('W110', 'L15264', 'Austin', 'TX', 78723, 'apartment', '2', 'Y', 'N', 1300),
 ('W111', 'L15264', 'Austin', 'TX', 78723, 'house', '1', 'Y', 'N', 1200),
```

```
('W112', 'L15264', 'Austin', 'TX', 78723, 'house', '2', 'Y', 'N', 1600),
('W113', 'L15278', 'Austin', 'TX', 78744, 'apartment', '1', 'Y', 'N', 800),
('W114', 'L15278', 'Austin', 'TX', 78744, 'apartment', '2', 'Y', 'N', 1200),
('W115', 'L15278', 'Austin', 'TX', 78744, 'house', '1', 'Y', 'N', 900),
('W116', 'L15278', 'Austin', 'TX', 78744, 'house', '2', 'Y', 'N', 1100),
('W117', 'L15280', 'Austin', 'TX', 78746, 'apartment', '1', 'Y', 'N', 1000),
('W118', 'L15280', 'Austin', 'TX', 78746, 'apartment', '2', 'Y', 'N', 1400),
('W119', 'L15280', 'Austin', 'TX', 78746, 'house', '1', 'Y', 'N', 1500),
('W12', 'L9533', 'Chapel Hill', 'NC', 27517, 'house', '2', 'Y', 'N', 1300),
('W120', 'L15280', 'Austin', 'TX', 78746, 'house', '2', 'Y', 'N', 1600),
('W121', 'L463', 'Bentonville', 'AR', 72712, 'apartment', '1', 'Y', 'N', 600),
('W122', 'L463', 'Bentonville', 'AR', 72712, 'apartment', '2', 'Y', 'N', 800),
('W123', 'L463', 'Bentonville', 'AR', 72712, 'house', '1', 'Y', 'N', 700),
('W124', 'L463', 'Bentonville', 'AR', 72712, 'house', '2', 'Y', 'N', 1000),
('W125', 'L464', 'Bentonville', 'AR', 72719, 'apartment', '1', 'Y', 'N', 700),
('W126', 'L464', 'Bentonville', 'AR', 72719, 'apartment', '2', 'Y', 'N', 900),
('W127', 'L464', 'Bentonville', 'AR', 72719, 'house', '1', 'Y', 'N', 1000),
('W128', 'L464', 'Bentonville', 'AR', 72719, 'house', '2', 'Y', 'N', 1200),
('W129', 'L2314', 'Denver', 'CO', 80204, 'apartment', '1', 'Y', 'N', 1200),
('W13', 'L9534', 'Chapel Hill', 'NC', 27707, 'apartment', '2', 'Y', 'N', 920),
('W130', 'L2314', 'Denver', 'CO', 80204, 'apartment', '2', 'Y', 'N', 1300),
('W131', 'L2314', 'Denver', 'CO', 80204, 'house', '1', 'Y', 'N', 1100),
('W132', 'L2314', 'Denver', 'CO', 80204, 'house', '2', 'Y', 'N', 1200),
('W133', 'L2318', 'Denver', 'CO', 80209, 'apartment', '1', 'Y', 'N', 1300),
('W134', 'L2318', 'Denver', 'CO', 80209, 'apartment', '2', 'Y', 'N', 1700),
('W135', 'L2318', 'Denver', 'CO', 80209, 'house', '1', 'Y', 'N', 1200),
('W136', 'L2318', 'Denver', 'CO', 80209, 'house', '2', 'Y', 'N', 1900),
('W137', 'L2323', 'Denver', 'CO', 80218, 'apartment', '1', 'Y', 'N', 1000),
('W138', 'L2323', 'Denver', 'CO', 80218, 'apartment', '2', 'Y', 'N', 1500),
('W139', 'L2323', 'Denver', 'CO', 80218, 'house', '1', 'Y', 'N', 1300),
('W14', 'L9534', 'Chapel Hill', 'NC', 27707, 'house', '1', 'Y', 'N', 850),
('W140', 'L2323', 'Denver', 'CO', 80218, 'house', '2', 'Y', 'N', 1800),
('W141', 'L2325', 'Denver', 'CO', 80220, 'apartment', '1', 'Y', 'N', 1100),
('W142', 'L2325', 'Denver', 'CO', 80220, 'apartment', '2', 'Y', 'N', 1400),
('W143', 'L2325', 'Denver', 'CO', 80220, 'house', '1', 'Y', 'N', 1300),
('W144', 'L2325', 'Denver', 'CO', 80220, 'house', '2', 'Y', 'N', 1900),
('W145', 'L2338', 'Denver', 'CO', 80249, 'apartment', '1', 'Y', 'N', 900),
('W146', 'L2338', 'Denver', 'CO', 80249, 'apartment', '2', 'Y', 'N', 1400),
('W147', 'L2338', 'Denver', 'CO', 80249, 'house', '1', 'Y', 'N', 1400),
('W148', 'L2338', 'Denver', 'CO', 80249, 'house', '2', 'Y', 'N', 1700),
('W149', 'L3244', 'Miami', 'FL', 33122, 'apartment', '1', 'Y', 'N', 800),
('W15', 'L9534', 'Chapel Hill', 'NC', 27707, 'house', '2', 'Y', 'N', 900),
('W150', 'L3244', 'Miami', 'FL', 33122, 'apartment', '2', 'Y', 'N', 1300),
('W151', 'L3244', 'Miami', 'FL', 33122, 'house', '1', 'Y', 'N', 1400),
('W152', 'L3244', 'Miami', 'FL', 33122, 'house', '2', 'Y', 'N', 1900),
('W153', 'L3256', 'Miami', 'FL', 33137, 'apartment', '1', 'Y', 'N', 1700),
('W154', 'L3256', 'Miami', 'FL', 33137, 'apartment', '2', 'Y', 'N', 2400),
```

```
('W155', 'L3256', 'Miami', 'FL', 33137, 'house', '1', 'Y', 'N', 2100),
('W156', 'L3256', 'Miami', 'FL', 33137, 'house', '2', 'Y', 'N', 3200),
('W157', 'L3261', 'Miami', 'FL', 33146, 'apartment', '1', 'Y', 'N', 1300),
('W158', 'L3261', 'Miami', 'FL', 33146, 'apartment', '2', 'Y', 'N', 1700),
('W159', 'L3261', 'Miami', 'FL', 33146, 'house', '1', 'Y', 'N', 1400),
('W16', 'L9534', 'Chapel Hill', 'NC', 27707, 'apartment', '1', 'Y', 'N', 750),
('W160', 'L3261', 'Miami', 'FL', 33146, 'house', '2', 'Y', 'N', 1900),
('W161', 'L3262', 'Miami', 'FL', 33149, 'apartment', '1', 'Y', 'N', 1600),
('W162', 'L3262', 'Miami', 'FL', 33149, 'apartment', '2', 'Y', 'N', 2200),
('W163', 'L3262', 'Miami', 'FL', 33149, 'house', '1', 'Y', 'N', 1500),
('W164', 'L3262', 'Miami', 'FL', 33149, 'house', '2', 'Y', 'N', 2400),
('W165', 'L3264', 'Miami', 'FL', 33178, 'apartment', '1', 'Y', 'N', 1600),
('W166', 'L3264', 'Miami', 'FL', 33178, 'apartment', '2', 'Y', 'N', 1900),
('W167', 'L3264', 'Miami', 'FL', 33178, 'house', '1', 'Y', 'N', 1400),
('W168', 'L3264', 'Miami', 'FL', 33178, 'house', '2', 'Y', 'N', 2000),
('W169', 'L10126', 'Omaha', 'NE', 68046, 'apartment', '1', 'Y', 'N', 1000),
('W17', 'L4761', 'Chicago', 'IL', 60607, 'apartment', '2', 'Y', 'N', 2500),
('W170', 'L10126', 'Omaha', 'NE', 68046, 'apartment', '2', 'Y', 'N', 1400),
('W171', 'L10126', 'Omaha', 'NE', 68046, 'house', '1', 'Y', 'N', 1300),
('W172', 'L10126', 'Omaha', 'NE', 68046, 'house', '2', 'Y', 'N', 1800),
('W173', 'L10130', 'Omaha', 'NE', 68106, 'apartment', '1', 'Y', 'N', 700),
('W174', 'L10130', 'Omaha', 'NE', 68106, 'apartment', '2', 'Y', 'N', 900),
('W175', 'L10130', 'Omaha', 'NE', 68106, 'house', '1', 'Y', 'N', 1000),
('W176', 'L10130', 'Omaha', 'NE', 68106, 'house', '2', 'Y', 'N', 1200),
('W177', 'L10133', 'Omaha', 'NE', 68110, 'apartment', '1', 'Y', 'N', 700),
('W178', 'L10133', 'Omaha', 'NE', 68110, 'apartment', '2', 'Y', 'N', 1000),
('W179', 'L10133', 'Omaha', 'NE', 68110, 'house', '1', 'Y', 'N', 800),
('W18', 'L4761', 'Chicago', 'IL', 60607, 'house', '1', 'Y', 'N', 2500),
('W180', 'L10133', 'Omaha', 'NE', 68110, 'house', '2', 'Y', 'N', 900),
('W181', 'L10136', 'Omaha', 'NE', 68114, 'apartment', '1', 'Y', 'N', 700),
('W182', 'L10136', 'Omaha', 'NE', 68114, 'apartment', '2', 'Y', 'N', 1000),
('W183', 'L10136', 'Omaha', 'NE', 68114, 'house', '1', 'Y', 'N', 900),
('W184', 'L10136', 'Omaha', 'NE', 68114, 'house', '2', 'Y', 'N', 1200),
('W185', 'L1882', 'San Diego', 'CA', 91910, 'apartment', '1', 'Y', 'N', 1100),
('W186', 'L1882', 'San Diego', 'CA', 91910, 'apartment', '2', 'Y', 'N', 1400),
('W187', 'L1882', 'San Diego', 'CA', 91910, 'house', '1', 'Y', 'N', 1300),
('W188', 'L1882', 'San Diego', 'CA', 91910, 'house', '2', 'Y', 'N', 1900),
('W189', 'L1883', 'San Diego', 'CA', 91950, 'apartment', '1', 'Y', 'N', 900),
('W19', 'L4761', 'Chicago', 'IL', 60607, 'house', '2', 'Y', 'N', 2800),
('W190', 'L1883', 'San Diego', 'CA', 91950, 'apartment', '2', 'Y', 'N', 1100),
('W191', 'L1883', 'San Diego', 'CA', 91950, 'house', '1', 'Y', 'N', 1300),
('W192', 'L1883', 'San Diego', 'CA', 91950, 'house', '2', 'Y', 'N', 1600),
('W193', 'L1887', 'San Diego', 'CA', 92102, 'apartment', '1', 'Y', 'N', 1400),
('W194', 'L1887', 'San Diego', 'CA', 92102, 'apartment', '2', 'Y', 'N', 2000),
('W195', 'L1887', 'San Diego', 'CA', 92102, 'house', '1', 'Y', 'N', 1700),
('W196', 'L1887', 'San Diego', 'CA', 92102, 'house', '2', 'Y', 'N', 2500),
('W197', 'L1902', 'San Diego', 'CA', 92118, 'apartment', '1', 'Y', 'N', 1800),
```

```
('W198', 'L1902', 'San Diego', 'CA', 92118, 'apartment', '2', 'Y', 'N', 2600),
('W199', 'L1902', 'San Diego', 'CA', 92118, 'house', '1', 'Y', 'N', 2500),
('W2', 'L9531', 'Chapel Hill', 'NC', 27514, 'house', '1', 'Y', 'N', 1500),
('W20', 'L4761', 'Chicago', 'IL', 60607, 'apartment', '1', 'Y', 'N', 1700),
('W200', 'L1902', 'San Diego', 'CA', 92118, 'house', '2', 'Y', 'N', 3600),
('W201', 'L1916', 'San Diego', 'CA', 92154, 'apartment', '1', 'Y', 'N', 1200),
('W202', 'L1916', 'San Diego', 'CA', 92154, 'apartment', '2', 'Y', 'N', 1600),
('W203', 'L1916', 'San Diego', 'CA', 92154, 'house', '1', 'Y', 'N', 1000),
('W204', 'L1916', 'San Diego', 'CA', 92154, 'house', '2', 'Y', 'N', 1500),
('W205', 'L12252', 'Columbus', 'OH', 43201, 'apartment', '1', 'Y', 'N', 750),
('W206', 'L12252', 'Columbus', 'OH', 43201, 'apartment', '2', 'Y', 'N', 1040),
('W207', 'L12252', 'Columbus', 'OH', 43201, 'house', '1', 'Y', 'N', 900),
('W208', 'L12252', 'Columbus', 'OH', 43201, 'house', '2', 'Y', 'N', 1400),
('W209', 'L12260', 'Columbus', 'OH', 43212, 'apartment', '1', 'Y', 'N', 825),
('W21', 'L4765', 'Chicago', 'IL', 60611, 'apartment', '2', 'Y', 'N', 2700),
('W210', 'L12260', 'Columbus', 'OH', 43212, 'apartment', '2', 'Y', 'N', 1300),
('W211', 'L12260', 'Columbus', 'OH', 43212, 'house', '1', 'Y', 'N', 1000),
('W212', 'L12260', 'Columbus', 'OH', 43212, 'house', '2', 'Y', 'N', 1480),
('W213', 'L12264', 'Columbus', 'OH', 43222, 'apartment', '1', 'Y', 'N', 650),
('W214', 'L12264', 'Columbus', 'OH', 43222, 'apartment', '2', 'Y', 'N', 920),
('W215', 'L12264', 'Columbus', 'OH', 43222, 'house', '1', 'Y', 'N', 880),
('W216', 'L12264', 'Columbus', 'OH', 43222, 'house', '2', 'Y', 'N', 1200),
('W217', 'L16888', 'Richmond', 'VA', 23113, 'apartment', '1', 'Y', 'N', 1000),
('W218', 'L16888', 'Richmond', 'VA', 23113, 'apartment', '2', 'Y', 'N', 1200),
('W219', 'L16888', 'Richmond', 'VA', 23113, 'house', '1', 'Y', 'N', 1400),
('W22', 'L4765', 'Chicago', 'IL', 60611, 'house', '1', 'Y', 'N', 2700),
('W220', 'L16888', 'Richmond', 'VA', 23113, 'house', '2', 'Y', 'N', 1600),
('W221', 'L16887', 'Richmond', 'VA', 23060, 'apartment', '1', 'Y', 'N', 1105),
('W222', 'L16887', 'Richmond', 'VA', 23060, 'apartment', '2', 'Y', 'N', 1665),
('W223', 'L16887', 'Richmond', 'VA', 23060, 'house', '1', 'Y', 'N', 1175),
('W224', 'L16887', 'Richmond', 'VA', 23060, 'house', '2', 'Y', 'N', 1725),
('W225', 'L16898', 'Richmond', 'VA', 23234, 'apartment', '1', 'Y', 'N', 709),
('W226', 'L16898', 'Richmond', 'VA', 23234, 'apartment', '2', 'Y', 'N', 869),
('W227', 'L16898', 'Richmond', 'VA', 23234, 'house', '1', 'Y', 'N', 925),
('W228', 'L16898', 'Richmond', 'VA', 23234, 'house', '2', 'Y', 'N', 1350),
('W229', 'L16890', 'Richmond', 'VA', 23220, 'apartment', '1', 'Y', 'N', 900),
('W23', 'L4765', 'Chicago', 'IL', 60611, 'house', '2', 'Y', 'N', 3200),
('W230', 'L16890', 'Richmond', 'VA', 23220, 'apartment', '2', 'Y', 'N', 1325),
('W231', 'L16890', 'Richmond', 'VA', 23220, 'house', '1', 'Y', 'N', 975),
('W232', 'L16890', 'Richmond', 'VA', 23220, 'house', '2', 'Y', 'N', 1550),
('W233', 'L14416', 'Charleston', 'SC', 29438, 'apartment', '1', 'Y', 'N',
1165),
('W234', 'L14416', 'Charleston', 'SC', 29438, 'apartment', '2', 'Y', 'N',
1625),
('W235', 'L14416', 'Charleston', 'SC', 29438, 'house', '1', 'Y', 'N', 1400),
('W236', 'L14416', 'Charleston', 'SC', 29438, 'house', '2', 'Y', 'N', 1995),
('W237', 'L14418', 'Charleston', 'SC', 29470, 'apartment', '1', 'Y', 'N', 760),
```

```
('W238', 'L14418', 'Charleston', 'SC', 29470, 'apartment', '2', 'Y', 'N', 965),
('W239', 'L14418', 'Charleston', 'SC', 29470, 'house', '1', 'Y', 'N', 1185),
('W24', 'L4765', 'Chicago', 'IL', 60611, 'apartment', '1', 'Y', 'N', 1700),
('W240', 'L14418', 'Charleston', 'SC', 29470, 'house', '2', 'Y', 'N', 1340),
('W241', 'L14419', 'Charleston', 'SC', 29487, 'apartment', '1', 'Y', 'N',
1150),
('W242', 'L14419', 'Charleston', 'SC', 29487, 'apartment', '2', 'Y', 'N',
2000),
('W243', 'L14419', 'Charleston', 'SC', 29487, 'house', '1', 'Y', 'N', 1600),
('W244', 'L14419', 'Charleston', 'SC', 29487, 'house', '2', 'Y', 'N', 2150),
('W25', 'L4770', 'Chicago', 'IL', 60616, 'apartment', '1', 'Y', 'N', 1600),
('W26', 'L4770', 'Chicago', 'IL', 60616, 'apartment', '2', 'Y', 'N', 2100),
('W27', 'L4770', 'Chicago', 'IL', 60616, 'house', '1', 'Y', 'N', 1200),
('W28', 'L4770', 'Chicago', 'IL', 60616, 'house', '2', 'Y', 'N', 2100),
('W29', 'L4794', 'Chicago', 'IL', 60642, 'apartment', '2', 'Y', 'N', 2500),
('W3', 'L9531', 'Chapel Hill', 'NC', 27514, 'house', '2', 'Y', 'N', 2000),
('W30', 'L4794', 'Chicago', 'IL', 60642, 'house', '1', 'Y', 'N', 2500),
('W31', 'L4794', 'Chicago', 'IL', 60642, 'house', '2', 'Y', 'N', 2750),
('W32', 'L4794', 'Chicago', 'IL', 60642, 'apartment', '1', 'Y', 'N', 1800),
('W33', 'L4804', 'Chicago', 'IL', 60654, 'apartment', '2', 'Y', 'N', 3000),
('W34', 'L4804', 'Chicago', 'IL', 60654, 'house', '1', 'Y', 'N', 2000),
('W35', 'L4804', 'Chicago', 'IL', 60654, 'house', '2', 'Y', 'N', 2950),
('W36', 'L4804', 'Chicago', 'IL', 60654, 'apartment', '1', 'Y', 'N', 1700),
('W37', 'L11419', 'New York', 'NY', 10002, 'apartment', '1', 'Y', 'N', 3000),
('W38', 'L11419', 'New York', 'NY', 10002, 'apartment', '2', 'Y', 'N', 3200),
('W39', 'L11421', 'New York', 'NY', 10004, 'apartment', '2', 'Y', 'N', 4500),
('W4', 'L9531', 'Chapel Hill', 'NC', 27514, 'apartment', '1', 'Y', 'N', 800),
('W40', 'L11421', 'New York', 'NY', 10004, 'house', '1', 'Y', 'N', 4500),
('W41', 'L11421', 'New York', 'NY', 10004, 'house', '2', 'Y', 'N', 5500),
('W42', 'L11421', 'New York', 'NY', 10004, 'apartment', '1', 'Y', 'N', 3500),
('W43', 'L11427', 'New York', 'NY', 10014, 'apartment', '2', 'Y', 'N', 4000),
('W44', 'L11427', 'New York', 'NY', 10014, 'apartment', '1', 'Y', 'N', 3000),
('W45', 'L11431', 'New York', 'NY', 10019, 'apartment', '2', 'Y', 'N', 5600),
('W46', 'L11431', 'New York', 'NY', 10019, 'house', '1', 'Y', 'N', 3200),
('W47', 'L11431', 'New York', 'NY', 10019, 'house', '2', 'Y', 'N', 3500),
('W48', 'L11431', 'New York', 'NY', 10019, 'apartment', '1', 'Y', 'N', 3400),
('W49', 'L11434', 'New York', 'NY', 10023, 'apartment', '2', 'Y', 'N', 4200),
('W5', 'L9532', 'Chapel Hill', 'NC', 27516, 'apartment', '2', 'Y', 'N', 1100),
('W50', 'L11434', 'New York', 'NY', 10023, 'house', '1', 'Y', 'N', 3000),
('W51', 'L11434', 'New York', 'NY', 10023, 'house', '2', 'Y', 'N', 3900),
('W52', 'L11434', 'New York', 'NY', 10023, 'apartment', '1', 'Y', 'N', 3600),
('W53', 'L11480', 'New York', 'NY', 11101, 'apartment', '2', 'Y', 'N', 3500),
('W54', 'L11480', 'New York', 'NY', 11101, 'house', '1', 'Y', 'N', 2500),
('W55', 'L11480', 'New York', 'NY', 11101, 'house', '2', 'Y', 'N', 3000),
('W56', 'L11480', 'New York', 'NY', 11101, 'apartment', '1', 'Y', 'N', 3000),
('W57', 'L11495', 'New York', 'NY', 11211, 'apartment', '2', 'Y', 'N', 3900),
('W58', 'L11495', 'New York', 'NY', 11211, 'house', '1', 'Y', 'N', 2800),
```

```
('W59', 'L11495', 'New York', 'NY', 11211, 'house', '2', 'Y', 'N', 3500),
('W6', 'L9532', 'Chapel Hill', 'NC', 27516, 'house', '1', 'Y', 'N', 900),
('W60', 'L11495', 'New York', 'NY', 11211, 'apartment', '1', 'Y', 'N', 2600),
('W61', 'L1734', 'Palo Alto', 'CA', 94025, 'apartment', '2', 'Y', 'N', 2695),
('W62', 'L1734', 'Palo Alto', 'CA', 94025, 'house', '1', 'Y', 'N', 3000),
('W63', 'L1734', 'Palo Alto', 'CA', 94025, 'house', '2', 'Y', 'N', 4000),
('W64', 'L1734', 'Palo Alto', 'CA', 94025, 'apartment', '1', 'Y', 'N', 2295),
('W65', 'L1735', 'Palo Alto', 'CA', 94301, 'apartment', '2', 'Y', 'N', 3000),
('W66', 'L1735', 'Palo Alto', 'CA', 94301, 'house', '1', 'Y', 'N', 3300),
('W67', 'L1735', 'Palo Alto', 'CA', 94301, 'house', '2', 'Y', 'N', 4500),
('W68', 'L1735', 'Palo Alto', 'CA', 94301, 'apartment', '1', 'Y', 'N', 2700),
('W69', 'L1736', 'Palo Alto', 'CA', 94303, 'apartment', '1', 'Y', 'N', 2700),
('W7', 'L9532', 'Chapel Hill', 'NC', 27516, 'house', '2', 'Y', 'N', 1100),
('W70', 'L1736', 'Palo Alto', 'CA', 94303, 'apartment', '2', 'Y', 'N', 3000),
('W71', 'L1736', 'Palo Alto', 'CA', 94303, 'house', '1', 'Y', 'N', 4500),
('W72', 'L1736', 'Palo Alto', 'CA', 94303, 'house', '2', 'Y', 'N', 4900),
('W73', 'L1737', 'Palo Alto', 'CA', 94305, 'apartment', '2', 'Y', 'N', 3300),
('W74', 'L1737', 'Palo Alto', 'CA', 94305, 'house', '1', 'Y', 'N', 4500),
('W75', 'L1737', 'Palo Alto', 'CA', 94305, 'house', '2', 'Y', 'N', 4200),
('W76', 'L1737', 'Palo Alto', 'CA', 94305, 'apartment', '1', 'Y', 'N', 2500),
('W77', 'L1738', 'Palo Alto', 'CA', 94306, 'apartment', '1', 'Y', 'N', 2500),
('W78', 'L1738', 'Palo Alto', 'CA', 94306, 'apartment', '2', 'Y', 'N', 3300),
('W79', 'L1738', 'Palo Alto', 'CA', 94306, 'house', '1', 'Y', 'N', 4500),
('W8', 'L9532', 'Chapel Hill', 'NC', 27516, 'apartment', '1', 'Y', 'N', 500),
('W80', 'L1738', 'Palo Alto', 'CA', 94306, 'house', '2', 'Y', 'N', 4200),
('W81', 'L1940', 'San Francisco', 'CA', 94103, 'apartment', '2', 'Y', 'N',
3600),
('W82', 'L1940', 'San Francisco', 'CA', 94103, 'house', '1', 'Y', 'N', 4000),
('W83', 'L1940', 'San Francisco', 'CA', 94103, 'house', '2', 'Y', 'N', 5500),
('W84', 'L1940', 'San Francisco', 'CA', 94103, 'apartment', '1', 'Y', 'N',
3000),
('W85', 'L1941', 'San Francisco', 'CA', 94110, 'apartment', '2', 'Y', 'N',
4000),
('W86', 'L1941', 'San Francisco', 'CA', 94110, 'house', '1', 'Y', 'N', 4000),
('W87', 'L1941', 'San Francisco', 'CA', 94110, 'house', '2', 'Y', 'N', 5000),
('W88', 'L1941', 'San Francisco', 'CA', 94110, 'apartment', '1', 'Y', 'N',
3200),
('W89', 'L1942', 'San Francisco', 'CA', 94112, 'apartment', '2', 'Y', 'N',
3500),
('W9', 'L9533', 'Chapel Hill', 'NC', 27517, 'apartment', '1', 'Y', 'N', 965),
('W90', 'L1942', 'San Francisco', 'CA', 94112, 'house', '1', 'Y', 'N', 3200),
('W91', 'L1942', 'San Francisco', 'CA', 94112, 'house', '2', 'Y', 'N', 3500),
('W92', 'L1942', 'San Francisco', 'CA', 94112, 'apartment', '1', 'Y', 'N',
3000),
('W93', 'L1943', 'San Francisco', 'CA', 94118, 'apartment', '1', 'Y', 'N',
2600),
('W94', 'L1943', 'San Francisco', 'CA', 94118, 'apartment', '2', 'Y', 'N',
```

```
       4000),
       ('W95', 'L1943', 'San Francisco', 'CA', 94118, 'house', '1', 'Y', 'N', 4000),
       ('W96', 'L1943', 'San Francisco', 'CA', 94118, 'house', '2', 'Y', 'N', 5100),
       ('W97', 'L1944', 'San Francisco', 'CA', 94129, 'apartment', '2', 'Y', 'N',
       5600),
       ('W98', 'L1944', 'San Francisco', 'CA', 94129, 'house', '1', 'Y', 'N', 5000),
       ('W99', 'L1944', 'San Francisco', 'CA', 94129, 'house', '2', 'Y', 'N', 6000)]
```

[ ]: ## Total Type of properties is 16

[10]: %sql SELECT COUNT(DISTINCT property_type_id) as "TypesOfProperties" FROM␣
      ↪property_type;

```
 * mysql://studentuser:***@localhost/capstone
1 rows affected.
```

[10]: [(16,)]

[ ]: ## Total number of short term rental properties

[9]: %sql SELECT COUNT(DISTINCT st_property_id) FROM st_property_info;

```
 * mysql://studentuser:***@localhost/capstone
1 rows affected.
```

[9]: [(999,)]

[42]: loc =%sql SELECT * FROM watershed_property_info;

```
 * mysql://studentuser:***@localhost/capstone
244 rows affected.
```

[43]: loc.csv("loc")

[43]: CSV results at /home/jovyan/work/loc

[10]: ## Extracted location, 10th price, 90th price from stRentalPrice table which␣
      ↪has same location and property type as
      ## waterhsed properties

[12]: %%sql
      SELECT w.location, s.percentile_10th_price, s.percentile_90th_price, s.
      ↪sample_nightly_rent_price
      FROM st_rental_prices s, watershed_property_info as w
      WHERE s.location = w.location and s.property_type = w.property_type;

```
 * mysql://studentuser:***@localhost/capstone
244 rows affected.
```

```
[12]: [('L9531', 114, 153, 148),
      ('L9533', 111, 149, 133),
      ('L1944', 108, 610, 372),
      ('L15257', 178, 533, 302),
      ('L15257', 221, 617, 429),
      ('L15257', 202, 646, 380),
      ('L15257', 197, 639, 374),
      ('L15260', 114, 477, 386),
      ('L15260', 80, 583, 212),
      ('L15260', 239, 1431, 969),
      ('L15260', 236, 1533, 885),
      ('L15264', 138, 550, 287),
      ('L9533', 116, 296, 206),
      ('L15264', 175, 917, 462),
      ('L15264', 130, 821, 389),
      ('L15264', 241, 866, 678),
      ('L15278', 134, 288, 163),
      ('L15278', 234, 794, 374),
      ('L15278', 252, 547, 444),
      ('L15278', 246, 616, 426),
      ('L15280', 171, 457, 332),
      ('L15280', 262, 567, 430),
      ('L15280', 229, 859, 662),
      ('L9533', 136, 336, 186),
      ('L15280', 449, 899, 696),
      ('L463', 132, 226, 182),
      ('L463', 157, 340, 241),
      ('L463', 215, 377, 363),
      ('L463', 202, 374, 301),
      ('L464', 94, 356, 212),
      ('L464', 69, 485, 340),
      ('L464', 84, 376, 266),
      ('L464', 109, 490, 442),
      ('L2314', 145, 434, 354),
      ('L9534', 111, 147, 123),
      ('L2314', 228, 457, 377),
      ('L2314', 90, 375, 318),
      ('L2314', 128, 238, 198),
      ('L2318', 126, 188, 149),
      ('L2318', 152, 247, 210),
      ('L2318', 141, 263, 187),
      ('L2318', 157, 314, 225),
      ('L2323', 93, 159, 123),
      ('L2323', 145, 462, 263),
      ('L2323', 181, 316, 238),
      ('L9534', 96, 245, 146),
      ('L2323', 145, 412, 349),
```

```
('L2325', 99, 215, 147),
('L2325', 120, 188, 151),
('L2325', 263, 489, 429),
('L2325', 335, 502, 441),
('L2338', 98, 195, 144),
('L2338', 77, 260, 136),
('L2338', 173, 322, 305),
('L2338', 176, 469, 425),
('L3244', 86, 224, 176),
('L9534', 111, 276, 169),
('L3244', 127, 276, 207),
('L3244', 222, 381, 244),
('L3244', 386, 773, 536),
('L3256', 136, 476, 476),
('L3256', 173, 690, 360),
('L3256', 448, 2128, 1477),
('L3256', 450, 2699, 1265),
('L3261', 291, 387, 328),
('L3261', 203, 318, 246),
('L3261', 287, 395, 325),
('L9534', 51, 179, 94),
('L3261', 376, 502, 428),
('L3262', 126, 352, 188),
('L3262', 119, 505, 274),
('L3262', 486, 1215, 860),
('L3262', 516, 1650, 729),
('L3264', 160, 321, 174),
('L3264', 168, 364, 308),
('L3264', 226, 368, 308),
('L3264', 285, 428, 342),
('L10126', 91, 342, 229),
('L4761', 173, 581, 392),
('L10126', 168, 392, 322),
('L10126', 155, 494, 257),
('L10126', 151, 391, 286),
('L10130', 99, 265, 180),
('L10130', 154, 286, 230),
('L10130', 190, 462, 221),
('L10130', 205, 411, 316),
('L10133', 192, 313, 245),
('L10133', 192, 357, 266),
('L10133', 186, 465, 325),
('L4761', 189, 588, 393),
('L10133', 209, 358, 256),
('L10136', 42, 252, 184),
('L10136', 94, 531, 427),
('L10136', 86, 488, 418),
```

```
('L10136', 83, 556, 219),
('L1882', 84, 301, 220),
('L1882', 134, 568, 481),
('L1882', 109, 615, 280),
('L1882', 227, 861, 568),
('L1883', 176, 440, 318),
('L4761', 191, 826, 556),
('L1883', 225, 1033, 538),
('L1883', 157, 471, 318),
('L1883', 253, 886, 680),
('L1887', 76, 342, 202),
('L1887', 107, 781, 579),
('L1887', 162, 614, 524),
('L1887', 158, 906, 560),
('L1902', 199, 432, 362),
('L1902', 366, 594, 417),
('L1902', 333, 665, 474),
('L9531', 81, 205, 146),
('L4761', 106, 465, 312),
('L1902', 336, 624, 491),
('L1916', 173, 395, 204),
('L1916', 228, 456, 245),
('L1916', 155, 252, 197),
('L1916', 158, 236, 195),
('L12252', 89, 155, 124),
('L12252', 115, 179, 156),
('L12252', 152, 300, 256),
('L12252', 175, 368, 284),
('L12260', 77, 161, 128),
('L4765', 157, 526, 337),
('L12260', 125, 170, 139),
('L12260', 140, 288, 240),
('L12260', 175, 310, 249),
('L12264', 80, 156, 107),
('L12264', 108, 205, 147),
('L12264', 145, 333, 246),
('L12264', 160, 310, 169),
('L16888', 95, 280, 174),
('L16888', 125, 277, 203),
('L16888', 209, 384, 240),
('L4765', 202, 629, 389),
('L16888', 220, 418, 312),
('L16887', 82, 235, 111),
('L16887', 130, 200, 169),
('L16887', 106, 267, 201),
('L16887', 195, 305, 242),
('L16898', 86, 192, 158),
```

```
('L16898', 135, 305, 246),
('L16898', 125, 288, 207),
('L16898', 119, 360, 224),
('L16890', 89, 177, 139),
('L4765', 195, 844, 325),
('L16890', 161, 319, 283),
('L16890', 145, 300, 192),
('L16890', 185, 376, 307),
('L14416', 135, 220, 180),
('L14416', 220, 312, 260),
('L14416', 135, 287, 232),
('L14416', 224, 331, 292),
('L14418', 100, 195, 169),
('L14418', 135, 284, 189),
('L14418', 157, 320, 289),
('L4765', 98, 430, 239),
('L14418', 135, 347, 278),
('L14419', 80, 267, 183),
('L14419', 160, 323, 237),
('L14419', 225, 406, 297),
('L14419', 170, 447, 360),
('L4770', 94, 411, 209),
('L4770', 130, 438, 265),
('L4770', 162, 504, 435),
('L4770', 175, 755, 487),
('L4794', 129, 431, 231),
('L9531', 97, 240, 199),
('L4794', 186, 578, 490),
('L4794', 188, 810, 538),
('L4794', 89, 390, 288),
('L4804', 193, 648, 415),
('L4804', 193, 600, 387),
('L4804', 192, 829, 575),
('L4804', 98, 432, 228),
('L11419', 87, 512, 337),
('L11419', 154, 480, 154),
('L11421', 273, 853, 432),
('L9531', 53, 188, 104),
('L11421', 103, 807, 200),
('L11421', 200, 770, 428),
('L11421', 151, 890, 576),
('L11427', 218, 681, 560),
('L11427', 109, 640, 288),
('L11431', 196, 612, 373),
('L11431', 165, 1296, 420),
('L11431', 268, 1032, 593),
('L11431', 106, 624, 436),
```

```
('L11434', 210, 654, 426),
('L9532', 111, 148, 142),
('L11434', 133, 1040, 621),
('L11434', 231, 888, 535),
('L11434', 137, 808, 196),
('L11480', 155, 483, 294),
('L11480', 111, 868, 471),
('L11480', 195, 752, 620),
('L11480', 80, 469, 235),
('L11495', 116, 361, 284),
('L11495', 102, 799, 355),
('L11495', 188, 724, 436),
('L9532', 116, 296, 141),
('L11495', 69, 406, 250),
('L1734', 265, 534, 443),
('L1734', 158, 706, 343),
('L1734', 306, 781, 739),
('L1734', 100, 469, 270),
('L1735', 270, 543, 424),
('L1735', 283, 1261, 980),
('L1735', 530, 1354, 994),
('L1735', 103, 483, 284),
('L1736', 110, 515, 236),
('L9532', 136, 335, 188),
('L1736', 270, 544, 329),
('L1736', 231, 1027, 549),
('L1736', 379, 969, 652),
('L1737', 264, 532, 378),
('L1737', 151, 673, 255),
('L1737', 278, 711, 441),
('L1737', 98, 460, 356),
('L1738', 108, 507, 437),
('L1738', 270, 543, 461),
('L1738', 186, 829, 669),
('L9532', 50, 174, 121),
('L1738', 319, 815, 437),
('L1940', 332, 805, 663),
('L1940', 179, 629, 337),
('L1940', 227, 813, 447),
('L1940', 115, 650, 610),
('L1941', 220, 534, 302),
('L1941', 128, 450, 213),
('L1941', 152, 546, 364),
('L1941', 94, 528, 251),
('L1942', 194, 471, 343),
('L9533', 50, 174, 125),
('L1942', 138, 485, 251),
```

```
('L1942', 152, 547, 404),
('L1942', 77, 432, 161),
('L1943', 100, 565, 408),
('L1943', 204, 494, 284),
('L1943', 257, 903, 443),
('L1943', 256, 916, 718),
('L1944', 265, 644, 478),
('L1944', 236, 829, 533),
('L1944', 244, 872, 566)]
```

[10]:
```
ws = %sql SELECT * FROM st_rental_prices s, watershed_property_info as w WHERE⌴
→s.location = w.location AND s.property_type = w.property_type;
```

```
 * mysql://studentuser:***@localhost/capstone
244 rows affected.
```

[ ]: `# Total Number of Cities in which Watershed has its properties.`

[20]:
```
%%sql
SELECT COUNT(DISTINCT city) FROM location l, watershed_property_info w
WHERE l.location_id = w.location;
```

```
 * mysql://studentuser:***@localhost/capstone
1 rows affected.
```

[20]: `[(14,)]`

[ ]: `# Average Nightly Rent for short term rental in different cities.`

[26]:
```
%%sql
SELECT AVG(s.sample_nightly_rent_price) as Average_Rent, l.city
FROM st_rental_prices as s, location as l, watershed_property_info as w
WHERE w.location = s.location and w.property_type = s.property_type and w.
 →location = l.location_id
GROUP BY l.city
ORDER BY Average_Rent;
```

```
 * mysql://studentuser:***@localhost/capstone
14 rows affected.
```

[26]:
```
[(Decimal('148.1875'), 'Chapel Hill'),
 (Decimal('187.0833'), 'Columbus'),
 (Decimal('213.0000'), 'Richmond'),
 (Decimal('247.1667'), 'Charleston'),
 (Decimal('258.4500'), 'Denver'),
 (Decimal('273.8125'), 'Omaha'),
 (Decimal('293.3750'), 'Bentonville'),
```

```
        (Decimal('374.5500'), 'Chicago'),
        (Decimal('392.6500'), 'San Diego'),
        (Decimal('396.6667'), 'New York'),
        (Decimal('407.4000'), 'San Francisco'),
        (Decimal('462.5500'), 'Miami'),
        (Decimal('464.0000'), 'Austin'),
        (Decimal('483.8500'), 'Palo Alto')]
```

[13]: *# Average Nigtly Price of 1 and 2 bedroom property*

[4]:
```
%%sql
SELECT AVG(s.sample_nightly_rent_price) as AveragePrice, p.num_bedrooms
FROM st_rental_prices as s, watershed_property_info as w, property_type as p
WHERE s.location = w.location and w.property_type = s.property_type and s.
 ↪property_type = p.property_type_id
GROUP BY p.num_bedrooms;
```

 * mysql://studentuser:***@localhost/capstone
2 rows affected.

[4]: [(Decimal('312.4098'), '1'), (Decimal('376.9918'), '2')]

[22]: *# All attributes from Watershed Property, Short Term Rental Price, Property*
 ↪Type Table

[21]:
```
%sql SELECT * FROM watershed_property_info as w, st_rental_prices as s,
 ↪property_type as p WHERE w.location = s.location and w.property_type = s.
 ↪property_type and s.property_type = p.property_type_id;
```

 * mysql://studentuser:***@localhost/capstone
244 rows affected.

[21]: [('W1', 'L9531', 'R6', 1060, 'L9531', 'R6', 114, 153, 148, 'R6', 'apartment',
 '2', 'Y', 'N'),
 ('W10', 'L9533', 'R6', 1200, 'L9533', 'R6', 111, 149, 133, 'R6', 'apartment',
 '2', 'Y', 'N'),
 ('W100', 'L1944', 'R2', 3300, 'L1944', 'R2', 108, 610, 372, 'R2', 'apartment',
 '1', 'Y', 'N'),
 ('W101', 'L15257', 'R2', 1400, 'L15257', 'R2', 178, 533, 302, 'R2',
 'apartment', '1', 'Y', 'N'),
 ('W102', 'L15257', 'R6', 2000, 'L15257', 'R6', 221, 617, 429, 'R6',
 'apartment', '2', 'Y', 'N'),
 ('W103', 'L15257', 'R10', 1600, 'L15257', 'R10', 202, 646, 380, 'R10', 'house',
 '1', 'Y', 'N'),
 ('W104', 'L15257', 'R14', 2800, 'L15257', 'R14', 197, 639, 374, 'R14', 'house',
 '2', 'Y', 'N'),
 ('W105', 'L15260', 'R2', 1100, 'L15260', 'R2', 114, 477, 386, 'R2',
```

```
'apartment', '1', 'Y', 'N'),
 ('W106', 'L15260', 'R6', 1900, 'L15260', 'R6', 80, 583, 212, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W107', 'L15260', 'R10', 1800, 'L15260', 'R10', 239, 1431, 969, 'R10',
'house', '1', 'Y', 'N'),
 ('W108', 'L15260', 'R14', 3200, 'L15260', 'R14', 236, 1533, 885, 'R14',
'house', '2', 'Y', 'N'),
 ('W109', 'L15264', 'R2', 1000, 'L15264', 'R2', 138, 550, 287, 'R2',
'apartment', '1', 'Y', 'N'),
 ('W11', 'L9533', 'R10', 1000, 'L9533', 'R10', 116, 296, 206, 'R10', 'house',
'1', 'Y', 'N'),
 ('W110', 'L15264', 'R6', 1300, 'L15264', 'R6', 175, 917, 462, 'R6',
'apartment', '2', 'Y', 'N'),
 ('W111', 'L15264', 'R10', 1200, 'L15264', 'R10', 130, 821, 389, 'R10', 'house',
'1', 'Y', 'N'),
 ('W112', 'L15264', 'R14', 1600, 'L15264', 'R14', 241, 866, 678, 'R14', 'house',
'2', 'Y', 'N'),
 ('W113', 'L15278', 'R2', 800, 'L15278', 'R2', 134, 288, 163, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W114', 'L15278', 'R6', 1200, 'L15278', 'R6', 234, 794, 374, 'R6',
'apartment', '2', 'Y', 'N'),
 ('W115', 'L15278', 'R10', 900, 'L15278', 'R10', 252, 547, 444, 'R10', 'house',
'1', 'Y', 'N'),
 ('W116', 'L15278', 'R14', 1100, 'L15278', 'R14', 246, 616, 426, 'R14', 'house',
'2', 'Y', 'N'),
 ('W117', 'L15280', 'R2', 1000, 'L15280', 'R2', 171, 457, 332, 'R2',
'apartment', '1', 'Y', 'N'),
 ('W118', 'L15280', 'R6', 1400, 'L15280', 'R6', 262, 567, 430, 'R6',
'apartment', '2', 'Y', 'N'),
 ('W119', 'L15280', 'R10', 1500, 'L15280', 'R10', 229, 859, 662, 'R10', 'house',
'1', 'Y', 'N'),
 ('W12', 'L9533', 'R14', 1300, 'L9533', 'R14', 136, 336, 186, 'R14', 'house',
'2', 'Y', 'N'),
 ('W120', 'L15280', 'R14', 1600, 'L15280', 'R14', 449, 899, 696, 'R14', 'house',
'2', 'Y', 'N'),
 ('W121', 'L463', 'R2', 600, 'L463', 'R2', 132, 226, 182, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W122', 'L463', 'R6', 800, 'L463', 'R6', 157, 340, 241, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W123', 'L463', 'R10', 700, 'L463', 'R10', 215, 377, 363, 'R10', 'house', '1',
'Y', 'N'),
 ('W124', 'L463', 'R14', 1000, 'L463', 'R14', 202, 374, 301, 'R14', 'house',
'2', 'Y', 'N'),
 ('W125', 'L464', 'R2', 700, 'L464', 'R2', 94, 356, 212, 'R2', 'apartment', '1',
'Y', 'N'),
 ('W126', 'L464', 'R6', 900, 'L464', 'R6', 69, 485, 340, 'R6', 'apartment', '2',
'Y', 'N'),
```

('W127', 'L464', 'R10', 1000, 'L464', 'R10', 84, 376, 266, 'R10', 'house', '1', 'Y', 'N'),
 ('W128', 'L464', 'R14', 1200, 'L464', 'R14', 109, 490, 442, 'R14', 'house', '2', 'Y', 'N'),
 ('W129', 'L2314', 'R2', 1200, 'L2314', 'R2', 145, 434, 354, 'R2', 'apartment', '1', 'Y', 'N'),
 ('W13', 'L9534', 'R6', 920, 'L9534', 'R6', 111, 147, 123, 'R6', 'apartment', '2', 'Y', 'N'),
 ('W130', 'L2314', 'R6', 1300, 'L2314', 'R6', 228, 457, 377, 'R6', 'apartment', '2', 'Y', 'N'),
 ('W131', 'L2314', 'R10', 1100, 'L2314', 'R10', 90, 375, 318, 'R10', 'house', '1', 'Y', 'N'),
 ('W132', 'L2314', 'R14', 1200, 'L2314', 'R14', 128, 238, 198, 'R14', 'house', '2', 'Y', 'N'),
 ('W133', 'L2318', 'R2', 1300, 'L2318', 'R2', 126, 188, 149, 'R2', 'apartment', '1', 'Y', 'N'),
 ('W134', 'L2318', 'R6', 1700, 'L2318', 'R6', 152, 247, 210, 'R6', 'apartment', '2', 'Y', 'N'),
 ('W135', 'L2318', 'R10', 1200, 'L2318', 'R10', 141, 263, 187, 'R10', 'house', '1', 'Y', 'N'),
 ('W136', 'L2318', 'R14', 1900, 'L2318', 'R14', 157, 314, 225, 'R14', 'house', '2', 'Y', 'N'),
 ('W137', 'L2323', 'R2', 1000, 'L2323', 'R2', 93, 159, 123, 'R2', 'apartment', '1', 'Y', 'N'),
 ('W138', 'L2323', 'R6', 1500, 'L2323', 'R6', 145, 462, 263, 'R6', 'apartment', '2', 'Y', 'N'),
 ('W139', 'L2323', 'R10', 1300, 'L2323', 'R10', 181, 316, 238, 'R10', 'house', '1', 'Y', 'N'),
 ('W14', 'L9534', 'R10', 850, 'L9534', 'R10', 96, 245, 146, 'R10', 'house', '1', 'Y', 'N'),
 ('W140', 'L2323', 'R14', 1800, 'L2323', 'R14', 145, 412, 349, 'R14', 'house', '2', 'Y', 'N'),
 ('W141', 'L2325', 'R2', 1100, 'L2325', 'R2', 99, 215, 147, 'R2', 'apartment', '1', 'Y', 'N'),
 ('W142', 'L2325', 'R6', 1400, 'L2325', 'R6', 120, 188, 151, 'R6', 'apartment', '2', 'Y', 'N'),
 ('W143', 'L2325', 'R10', 1300, 'L2325', 'R10', 263, 489, 429, 'R10', 'house', '1', 'Y', 'N'),
 ('W144', 'L2325', 'R14', 1900, 'L2325', 'R14', 335, 502, 441, 'R14', 'house', '2', 'Y', 'N'),
 ('W145', 'L2338', 'R2', 900, 'L2338', 'R2', 98, 195, 144, 'R2', 'apartment', '1', 'Y', 'N'),
 ('W146', 'L2338', 'R6', 1400, 'L2338', 'R6', 77, 260, 136, 'R6', 'apartment', '2', 'Y', 'N'),
 ('W147', 'L2338', 'R10', 1400, 'L2338', 'R10', 173, 322, 305, 'R10', 'house', '1', 'Y', 'N'),
 ('W148', 'L2338', 'R14', 1700, 'L2338', 'R14', 176, 469, 425, 'R14', 'house',

```
 '2', 'Y', 'N'),
 ('W149', 'L3244', 'R2', 800, 'L3244', 'R2', 86, 224, 176, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W15', 'L9534', 'R14', 900, 'L9534', 'R14', 111, 276, 169, 'R14', 'house',
'2', 'Y', 'N'),
 ('W150', 'L3244', 'R6', 1300, 'L3244', 'R6', 127, 276, 207, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W151', 'L3244', 'R10', 1400, 'L3244', 'R10', 222, 381, 244, 'R10', 'house',
'1', 'Y', 'N'),
 ('W152', 'L3244', 'R14', 1900, 'L3244', 'R14', 386, 773, 536, 'R14', 'house',
'2', 'Y', 'N'),
 ('W153', 'L3256', 'R2', 1700, 'L3256', 'R2', 136, 476, 476, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W154', 'L3256', 'R6', 2400, 'L3256', 'R6', 173, 690, 360, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W155', 'L3256', 'R10', 2100, 'L3256', 'R10', 448, 2128, 1477, 'R10', 'house',
'1', 'Y', 'N'),
 ('W156', 'L3256', 'R14', 3200, 'L3256', 'R14', 450, 2699, 1265, 'R14', 'house',
'2', 'Y', 'N'),
 ('W157', 'L3261', 'R2', 1300, 'L3261', 'R2', 291, 387, 328, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W158', 'L3261', 'R6', 1700, 'L3261', 'R6', 203, 318, 246, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W159', 'L3261', 'R10', 1400, 'L3261', 'R10', 287, 395, 325, 'R10', 'house',
'1', 'Y', 'N'),
 ('W16', 'L9534', 'R2', 750, 'L9534', 'R2', 51, 179, 94, 'R2', 'apartment', '1',
'Y', 'N'),
 ('W160', 'L3261', 'R14', 1900, 'L3261', 'R14', 376, 502, 428, 'R14', 'house',
'2', 'Y', 'N'),
 ('W161', 'L3262', 'R2', 1600, 'L3262', 'R2', 126, 352, 188, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W162', 'L3262', 'R6', 2200, 'L3262', 'R6', 119, 505, 274, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W163', 'L3262', 'R10', 1500, 'L3262', 'R10', 486, 1215, 860, 'R10', 'house',
'1', 'Y', 'N'),
 ('W164', 'L3262', 'R14', 2400, 'L3262', 'R14', 516, 1650, 729, 'R14', 'house',
'2', 'Y', 'N'),
 ('W165', 'L3264', 'R2', 1600, 'L3264', 'R2', 160, 321, 174, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W166', 'L3264', 'R6', 1900, 'L3264', 'R6', 168, 364, 308, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W167', 'L3264', 'R10', 1400, 'L3264', 'R10', 226, 368, 308, 'R10', 'house',
'1', 'Y', 'N'),
 ('W168', 'L3264', 'R14', 2000, 'L3264', 'R14', 285, 428, 342, 'R14', 'house',
'2', 'Y', 'N'),
 ('W169', 'L10126', 'R2', 1000, 'L10126', 'R2', 91, 342, 229, 'R2', 'apartment',
'1', 'Y', 'N'),
```

```
('W17', 'L4761', 'R6', 2500, 'L4761', 'R6', 173, 581, 392, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W170', 'L10126', 'R6', 1400, 'L10126', 'R6', 168, 392, 322, 'R6',
'apartment', '2', 'Y', 'N'),
 ('W171', 'L10126', 'R10', 1300, 'L10126', 'R10', 155, 494, 257, 'R10', 'house',
'1', 'Y', 'N'),
 ('W172', 'L10126', 'R14', 1800, 'L10126', 'R14', 151, 391, 286, 'R14', 'house',
'2', 'Y', 'N'),
 ('W173', 'L10130', 'R2', 700, 'L10130', 'R2', 99, 265, 180, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W174', 'L10130', 'R6', 900, 'L10130', 'R6', 154, 286, 230, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W175', 'L10130', 'R10', 1000, 'L10130', 'R10', 190, 462, 221, 'R10', 'house',
'1', 'Y', 'N'),
 ('W176', 'L10130', 'R14', 1200, 'L10130', 'R14', 205, 411, 316, 'R14', 'house',
'2', 'Y', 'N'),
 ('W177', 'L10133', 'R2', 700, 'L10133', 'R2', 192, 313, 245, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W178', 'L10133', 'R6', 1000, 'L10133', 'R6', 192, 357, 266, 'R6',
'apartment', '2', 'Y', 'N'),
 ('W179', 'L10133', 'R10', 800, 'L10133', 'R10', 186, 465, 325, 'R10', 'house',
'1', 'Y', 'N'),
 ('W18', 'L4761', 'R10', 2500, 'L4761', 'R10', 189, 588, 393, 'R10', 'house',
'1', 'Y', 'N'),
 ('W180', 'L10133', 'R14', 900, 'L10133', 'R14', 209, 358, 256, 'R14', 'house',
'2', 'Y', 'N'),
 ('W181', 'L10136', 'R2', 700, 'L10136', 'R2', 42, 252, 184, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W182', 'L10136', 'R6', 1000, 'L10136', 'R6', 94, 531, 427, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W183', 'L10136', 'R10', 900, 'L10136', 'R10', 86, 488, 418, 'R10', 'house',
'1', 'Y', 'N'),
 ('W184', 'L10136', 'R14', 1200, 'L10136', 'R14', 83, 556, 219, 'R14', 'house',
'2', 'Y', 'N'),
 ('W185', 'L1882', 'R2', 1100, 'L1882', 'R2', 84, 301, 220, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W186', 'L1882', 'R6', 1400, 'L1882', 'R6', 134, 568, 481, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W187', 'L1882', 'R10', 1300, 'L1882', 'R10', 109, 615, 280, 'R10', 'house',
'1', 'Y', 'N'),
 ('W188', 'L1882', 'R14', 1900, 'L1882', 'R14', 227, 861, 568, 'R14', 'house',
'2', 'Y', 'N'),
 ('W189', 'L1883', 'R2', 900, 'L1883', 'R2', 176, 440, 318, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W19', 'L4761', 'R14', 2800, 'L4761', 'R14', 191, 826, 556, 'R14', 'house',
'2', 'Y', 'N'),
 ('W190', 'L1883', 'R6', 1100, 'L1883', 'R6', 225, 1033, 538, 'R6', 'apartment',
```

```
'2', 'Y', 'N'),
 ('W191', 'L1883', 'R10', 1300, 'L1883', 'R10', 157, 471, 318, 'R10', 'house',
'1', 'Y', 'N'),
 ('W192', 'L1883', 'R14', 1600, 'L1883', 'R14', 253, 886, 680, 'R14', 'house',
'2', 'Y', 'N'),
 ('W193', 'L1887', 'R2', 1400, 'L1887', 'R2', 76, 342, 202, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W194', 'L1887', 'R6', 2000, 'L1887', 'R6', 107, 781, 579, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W195', 'L1887', 'R10', 1700, 'L1887', 'R10', 162, 614, 524, 'R10', 'house',
'1', 'Y', 'N'),
 ('W196', 'L1887', 'R14', 2500, 'L1887', 'R14', 158, 906, 560, 'R14', 'house',
'2', 'Y', 'N'),
 ('W197', 'L1902', 'R2', 1800, 'L1902', 'R2', 199, 432, 362, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W198', 'L1902', 'R6', 2600, 'L1902', 'R6', 366, 594, 417, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W199', 'L1902', 'R10', 2500, 'L1902', 'R10', 333, 665, 474, 'R10', 'house',
'1', 'Y', 'N'),
 ('W2', 'L9531', 'R10', 1500, 'L9531', 'R10', 81, 205, 146, 'R10', 'house', '1',
'Y', 'N'),
 ('W20', 'L4761', 'R2', 1700, 'L4761', 'R2', 106, 465, 312, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W200', 'L1902', 'R14', 3600, 'L1902', 'R14', 336, 624, 491, 'R14', 'house',
'2', 'Y', 'N'),
 ('W201', 'L1916', 'R2', 1200, 'L1916', 'R2', 173, 395, 204, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W202', 'L1916', 'R6', 1600, 'L1916', 'R6', 228, 456, 245, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W203', 'L1916', 'R10', 1000, 'L1916', 'R10', 155, 252, 197, 'R10', 'house',
'1', 'Y', 'N'),
 ('W204', 'L1916', 'R14', 1500, 'L1916', 'R14', 158, 236, 195, 'R14', 'house',
'2', 'Y', 'N'),
 ('W205', 'L12252', 'R2', 750, 'L12252', 'R2', 89, 155, 124, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W206', 'L12252', 'R6', 1040, 'L12252', 'R6', 115, 179, 156, 'R6',
'apartment', '2', 'Y', 'N'),
 ('W207', 'L12252', 'R10', 900, 'L12252', 'R10', 152, 300, 256, 'R10', 'house',
'1', 'Y', 'N'),
 ('W208', 'L12252', 'R14', 1400, 'L12252', 'R14', 175, 368, 284, 'R14', 'house',
'2', 'Y', 'N'),
 ('W209', 'L12260', 'R2', 825, 'L12260', 'R2', 77, 161, 128, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W21', 'L4765', 'R6', 2700, 'L4765', 'R6', 157, 526, 337, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W210', 'L12260', 'R6', 1300, 'L12260', 'R6', 125, 170, 139, 'R6',
'apartment', '2', 'Y', 'N'),
```

```
('W211', 'L12260', 'R10', 1000, 'L12260', 'R10', 140, 288, 240, 'R10', 'house',
'1', 'Y', 'N'),
('W212', 'L12260', 'R14', 1480, 'L12260', 'R14', 175, 310, 249, 'R14', 'house',
'2', 'Y', 'N'),
('W213', 'L12264', 'R2', 650, 'L12264', 'R2', 80, 156, 107, 'R2', 'apartment',
'1', 'Y', 'N'),
('W214', 'L12264', 'R6', 920, 'L12264', 'R6', 108, 205, 147, 'R6', 'apartment',
'2', 'Y', 'N'),
('W215', 'L12264', 'R10', 880, 'L12264', 'R10', 145, 333, 246, 'R10', 'house',
'1', 'Y', 'N'),
('W216', 'L12264', 'R14', 1200, 'L12264', 'R14', 160, 310, 169, 'R14', 'house',
'2', 'Y', 'N'),
('W217', 'L16888', 'R2', 1000, 'L16888', 'R2', 95, 280, 174, 'R2', 'apartment',
'1', 'Y', 'N'),
('W218', 'L16888', 'R6', 1200, 'L16888', 'R6', 125, 277, 203, 'R6',
'apartment', '2', 'Y', 'N'),
('W219', 'L16888', 'R10', 1400, 'L16888', 'R10', 209, 384, 240, 'R10', 'house',
'1', 'Y', 'N'),
('W22', 'L4765', 'R10', 2700, 'L4765', 'R10', 202, 629, 389, 'R10', 'house',
'1', 'Y', 'N'),
('W220', 'L16888', 'R14', 1600, 'L16888', 'R14', 220, 418, 312, 'R14', 'house',
'2', 'Y', 'N'),
('W221', 'L16887', 'R2', 1105, 'L16887', 'R2', 82, 235, 111, 'R2', 'apartment',
'1', 'Y', 'N'),
('W222', 'L16887', 'R6', 1665, 'L16887', 'R6', 130, 200, 169, 'R6',
'apartment', '2', 'Y', 'N'),
('W223', 'L16887', 'R10', 1175, 'L16887', 'R10', 106, 267, 201, 'R10', 'house',
'1', 'Y', 'N'),
('W224', 'L16887', 'R14', 1725, 'L16887', 'R14', 195, 305, 242, 'R14', 'house',
'2', 'Y', 'N'),
('W225', 'L16898', 'R2', 709, 'L16898', 'R2', 86, 192, 158, 'R2', 'apartment',
'1', 'Y', 'N'),
('W226', 'L16898', 'R6', 869, 'L16898', 'R6', 135, 305, 246, 'R6', 'apartment',
'2', 'Y', 'N'),
('W227', 'L16898', 'R10', 925, 'L16898', 'R10', 125, 288, 207, 'R10', 'house',
'1', 'Y', 'N'),
('W228', 'L16898', 'R14', 1350, 'L16898', 'R14', 119, 360, 224, 'R14', 'house',
'2', 'Y', 'N'),
('W229', 'L16890', 'R2', 900, 'L16890', 'R2', 89, 177, 139, 'R2', 'apartment',
'1', 'Y', 'N'),
('W23', 'L4765', 'R14', 3200, 'L4765', 'R14', 195, 844, 325, 'R14', 'house',
'2', 'Y', 'N'),
('W230', 'L16890', 'R6', 1325, 'L16890', 'R6', 161, 319, 283, 'R6',
'apartment', '2', 'Y', 'N'),
('W231', 'L16890', 'R10', 975, 'L16890', 'R10', 145, 300, 192, 'R10', 'house',
'1', 'Y', 'N'),
('W232', 'L16890', 'R14', 1550, 'L16890', 'R14', 185, 376, 307, 'R14', 'house',
```

```
'2', 'Y', 'N'),
 ('W233', 'L14416', 'R2', 1165, 'L14416', 'R2', 135, 220, 180, 'R2',
'apartment', '1', 'Y', 'N'),
 ('W234', 'L14416', 'R6', 1625, 'L14416', 'R6', 220, 312, 260, 'R6',
'apartment', '2', 'Y', 'N'),
 ('W235', 'L14416', 'R10', 1400, 'L14416', 'R10', 135, 287, 232, 'R10', 'house',
'1', 'Y', 'N'),
 ('W236', 'L14416', 'R14', 1995, 'L14416', 'R14', 224, 331, 292, 'R14', 'house',
'2', 'Y', 'N'),
 ('W237', 'L14418', 'R2', 760, 'L14418', 'R2', 100, 195, 169, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W238', 'L14418', 'R6', 965, 'L14418', 'R6', 135, 284, 189, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W239', 'L14418', 'R10', 1185, 'L14418', 'R10', 157, 320, 289, 'R10', 'house',
'1', 'Y', 'N'),
 ('W24', 'L4765', 'R2', 1700, 'L4765', 'R2', 98, 430, 239, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W240', 'L14418', 'R14', 1340, 'L14418', 'R14', 135, 347, 278, 'R14', 'house',
'2', 'Y', 'N'),
 ('W241', 'L14419', 'R2', 1150, 'L14419', 'R2', 80, 267, 183, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W242', 'L14419', 'R6', 2000, 'L14419', 'R6', 160, 323, 237, 'R6',
'apartment', '2', 'Y', 'N'),
 ('W243', 'L14419', 'R10', 1600, 'L14419', 'R10', 225, 406, 297, 'R10', 'house',
'1', 'Y', 'N'),
 ('W244', 'L14419', 'R14', 2150, 'L14419', 'R14', 170, 447, 360, 'R14', 'house',
'2', 'Y', 'N'),
 ('W25', 'L4770', 'R2', 1600, 'L4770', 'R2', 94, 411, 209, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W26', 'L4770', 'R6', 2100, 'L4770', 'R6', 130, 438, 265, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W27', 'L4770', 'R10', 1200, 'L4770', 'R10', 162, 504, 435, 'R10', 'house',
'1', 'Y', 'N'),
 ('W28', 'L4770', 'R14', 2100, 'L4770', 'R14', 175, 755, 487, 'R14', 'house',
'2', 'Y', 'N'),
 ('W29', 'L4794', 'R6', 2500, 'L4794', 'R6', 129, 431, 231, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W3', 'L9531', 'R14', 2000, 'L9531', 'R14', 97, 240, 199, 'R14', 'house', '2',
'Y', 'N'),
 ('W30', 'L4794', 'R10', 2500, 'L4794', 'R10', 186, 578, 490, 'R10', 'house',
'1', 'Y', 'N'),
 ('W31', 'L4794', 'R14', 2750, 'L4794', 'R14', 188, 810, 538, 'R14', 'house',
'2', 'Y', 'N'),
 ('W32', 'L4794', 'R2', 1800, 'L4794', 'R2', 89, 390, 288, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W33', 'L4804', 'R6', 3000, 'L4804', 'R6', 193, 648, 415, 'R6', 'apartment',
'2', 'Y', 'N'),
```

```
('W34', 'L4804', 'R10', 2000, 'L4804', 'R10', 193, 600, 387, 'R10', 'house',
'1', 'Y', 'N'),
 ('W35', 'L4804', 'R14', 2950, 'L4804', 'R14', 192, 829, 575, 'R14', 'house',
'2', 'Y', 'N'),
 ('W36', 'L4804', 'R2', 1700, 'L4804', 'R2', 98, 432, 228, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W37', 'L11419', 'R2', 3000, 'L11419', 'R2', 87, 512, 337, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W38', 'L11419', 'R6', 3200, 'L11419', 'R6', 154, 480, 154, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W39', 'L11421', 'R6', 4500, 'L11421', 'R6', 273, 853, 432, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W4', 'L9531', 'R2', 800, 'L9531', 'R2', 53, 188, 104, 'R2', 'apartment', '1',
'Y', 'N'),
 ('W40', 'L11421', 'R10', 4500, 'L11421', 'R10', 103, 807, 200, 'R10', 'house',
'1', 'Y', 'N'),
 ('W41', 'L11421', 'R14', 5500, 'L11421', 'R14', 200, 770, 428, 'R14', 'house',
'2', 'Y', 'N'),
 ('W42', 'L11421', 'R2', 3500, 'L11421', 'R2', 151, 890, 576, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W43', 'L11427', 'R6', 4000, 'L11427', 'R6', 218, 681, 560, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W44', 'L11427', 'R2', 3000, 'L11427', 'R2', 109, 640, 288, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W45', 'L11431', 'R6', 5600, 'L11431', 'R6', 196, 612, 373, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W46', 'L11431', 'R10', 3200, 'L11431', 'R10', 165, 1296, 420, 'R10', 'house',
'1', 'Y', 'N'),
 ('W47', 'L11431', 'R14', 3500, 'L11431', 'R14', 268, 1032, 593, 'R14', 'house',
'2', 'Y', 'N'),
 ('W48', 'L11431', 'R2', 3400, 'L11431', 'R2', 106, 624, 436, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W49', 'L11434', 'R6', 4200, 'L11434', 'R6', 210, 654, 426, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W5', 'L9532', 'R6', 1100, 'L9532', 'R6', 111, 148, 142, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W50', 'L11434', 'R10', 3000, 'L11434', 'R10', 133, 1040, 621, 'R10', 'house',
'1', 'Y', 'N'),
 ('W51', 'L11434', 'R14', 3900, 'L11434', 'R14', 231, 888, 535, 'R14', 'house',
'2', 'Y', 'N'),
 ('W52', 'L11434', 'R2', 3600, 'L11434', 'R2', 137, 808, 196, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W53', 'L11480', 'R6', 3500, 'L11480', 'R6', 155, 483, 294, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W54', 'L11480', 'R10', 2500, 'L11480', 'R10', 111, 868, 471, 'R10', 'house',
'1', 'Y', 'N'),
 ('W55', 'L11480', 'R14', 3000, 'L11480', 'R14', 195, 752, 620, 'R14', 'house',
```

```
'2', 'Y', 'N'),
 ('W56', 'L11480', 'R2', 3000, 'L11480', 'R2', 80, 469, 235, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W57', 'L11495', 'R6', 3900, 'L11495', 'R6', 116, 361, 284, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W58', 'L11495', 'R10', 2800, 'L11495', 'R10', 102, 799, 355, 'R10', 'house',
'1', 'Y', 'N'),
 ('W59', 'L11495', 'R14', 3500, 'L11495', 'R14', 188, 724, 436, 'R14', 'house',
'2', 'Y', 'N'),
 ('W6', 'L9532', 'R10', 900, 'L9532', 'R10', 116, 296, 141, 'R10', 'house', '1',
'Y', 'N'),
 ('W60', 'L11495', 'R2', 2600, 'L11495', 'R2', 69, 406, 250, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W61', 'L1734', 'R6', 2695, 'L1734', 'R6', 265, 534, 443, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W62', 'L1734', 'R10', 3000, 'L1734', 'R10', 158, 706, 343, 'R10', 'house',
'1', 'Y', 'N'),
 ('W63', 'L1734', 'R14', 4000, 'L1734', 'R14', 306, 781, 739, 'R14', 'house',
'2', 'Y', 'N'),
 ('W64', 'L1734', 'R2', 2295, 'L1734', 'R2', 100, 469, 270, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W65', 'L1735', 'R6', 3000, 'L1735', 'R6', 270, 543, 424, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W66', 'L1735', 'R10', 3300, 'L1735', 'R10', 283, 1261, 980, 'R10', 'house',
'1', 'Y', 'N'),
 ('W67', 'L1735', 'R14', 4500, 'L1735', 'R14', 530, 1354, 994, 'R14', 'house',
'2', 'Y', 'N'),
 ('W68', 'L1735', 'R2', 2700, 'L1735', 'R2', 103, 483, 284, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W69', 'L1736', 'R2', 2700, 'L1736', 'R2', 110, 515, 236, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W7', 'L9532', 'R14', 1100, 'L9532', 'R14', 136, 335, 188, 'R14', 'house',
'2', 'Y', 'N'),
 ('W70', 'L1736', 'R6', 3000, 'L1736', 'R6', 270, 544, 329, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W71', 'L1736', 'R10', 4500, 'L1736', 'R10', 231, 1027, 549, 'R10', 'house',
'1', 'Y', 'N'),
 ('W72', 'L1736', 'R14', 4900, 'L1736', 'R14', 379, 969, 652, 'R14', 'house',
'2', 'Y', 'N'),
 ('W73', 'L1737', 'R6', 3300, 'L1737', 'R6', 264, 532, 378, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W74', 'L1737', 'R10', 4500, 'L1737', 'R10', 151, 673, 255, 'R10', 'house',
'1', 'Y', 'N'),
 ('W75', 'L1737', 'R14', 4200, 'L1737', 'R14', 278, 711, 441, 'R14', 'house',
'2', 'Y', 'N'),
 ('W76', 'L1737', 'R2', 2500, 'L1737', 'R2', 98, 460, 356, 'R2', 'apartment',
'1', 'Y', 'N'),
```

```
('W77', 'L1738', 'R2', 2500, 'L1738', 'R2', 108, 507, 437, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W78', 'L1738', 'R6', 3300, 'L1738', 'R6', 270, 543, 461, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W79', 'L1738', 'R10', 4500, 'L1738', 'R10', 186, 829, 669, 'R10', 'house',
'1', 'Y', 'N'),
 ('W8', 'L9532', 'R2', 500, 'L9532', 'R2', 50, 174, 121, 'R2', 'apartment', '1',
'Y', 'N'),
 ('W80', 'L1738', 'R14', 4200, 'L1738', 'R14', 319, 815, 437, 'R14', 'house',
'2', 'Y', 'N'),
 ('W81', 'L1940', 'R6', 3600, 'L1940', 'R6', 332, 805, 663, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W82', 'L1940', 'R10', 4000, 'L1940', 'R10', 179, 629, 337, 'R10', 'house',
'1', 'Y', 'N'),
 ('W83', 'L1940', 'R14', 5500, 'L1940', 'R14', 227, 813, 447, 'R14', 'house',
'2', 'Y', 'N'),
 ('W84', 'L1940', 'R2', 3000, 'L1940', 'R2', 115, 650, 610, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W85', 'L1941', 'R6', 4000, 'L1941', 'R6', 220, 534, 302, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W86', 'L1941', 'R10', 4000, 'L1941', 'R10', 128, 450, 213, 'R10', 'house',
'1', 'Y', 'N'),
 ('W87', 'L1941', 'R14', 5000, 'L1941', 'R14', 152, 546, 364, 'R14', 'house',
'2', 'Y', 'N'),
 ('W88', 'L1941', 'R2', 3200, 'L1941', 'R2', 94, 528, 251, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W89', 'L1942', 'R6', 3500, 'L1942', 'R6', 194, 471, 343, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W9', 'L9533', 'R2', 965, 'L9533', 'R2', 50, 174, 125, 'R2', 'apartment', '1',
'Y', 'N'),
 ('W90', 'L1942', 'R10', 3200, 'L1942', 'R10', 138, 485, 251, 'R10', 'house',
'1', 'Y', 'N'),
 ('W91', 'L1942', 'R14', 3500, 'L1942', 'R14', 152, 547, 404, 'R14', 'house',
'2', 'Y', 'N'),
 ('W92', 'L1942', 'R2', 3000, 'L1942', 'R2', 77, 432, 161, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W93', 'L1943', 'R2', 2600, 'L1943', 'R2', 100, 565, 408, 'R2', 'apartment',
'1', 'Y', 'N'),
 ('W94', 'L1943', 'R6', 4000, 'L1943', 'R6', 204, 494, 284, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W95', 'L1943', 'R10', 4000, 'L1943', 'R10', 257, 903, 443, 'R10', 'house',
'1', 'Y', 'N'),
 ('W96', 'L1943', 'R14', 5100, 'L1943', 'R14', 256, 916, 718, 'R14', 'house',
'2', 'Y', 'N'),
 ('W97', 'L1944', 'R6', 5600, 'L1944', 'R6', 265, 644, 478, 'R6', 'apartment',
'2', 'Y', 'N'),
 ('W98', 'L1944', 'R10', 5000, 'L1944', 'R10', 236, 829, 533, 'R10', 'house',
```

```
  '1', 'Y', 'N'),
 ('W99', 'L1944', 'R14', 6000, 'L1944', 'R14', 244, 872, 566, 'R14', 'house',
  '2', 'Y', 'N')]
```

[20]: `temp.csv("temp")`

[20]: CSV results at /home/jovyan/work/temp

[ ]: `# Extracting Average Rental Price, city and property type`

[28]:
```sql
%%sql
SELECT AVG(s.sample_nightly_rent_price) as AverageRent, l.city, p.apt_house
FROM st_rental_prices s
INNER JOIN watershed_property_info w
ON s.location = w.location and s.property_type = w.property_type
INNER JOIN location l
ON w.location = l.location_id
INNER JOIN property_type p
ON s.property_type = p.property_type_id
GROUP BY l.city, p.apt_house;
```

 * mysql://studentuser:***@localhost/capstone
28 rows affected.

[28]: [(Decimal('337.7000'), 'Austin', 'apartment'),
 (Decimal('590.3000'), 'Austin', 'house'),
 (Decimal('243.7500'), 'Bentonville', 'apartment'),
 (Decimal('343.0000'), 'Bentonville', 'house'),
 (Decimal('123.7500'), 'Chapel Hill', 'apartment'),
 (Decimal('172.6250'), 'Chapel Hill', 'house'),
 (Decimal('203.0000'), 'Charleston', 'apartment'),
 (Decimal('291.3333'), 'Charleston', 'house'),
 (Decimal('291.6000'), 'Chicago', 'apartment'),
 (Decimal('457.5000'), 'Chicago', 'house'),
 (Decimal('133.5000'), 'Columbus', 'apartment'),
 (Decimal('240.6667'), 'Columbus', 'house'),
 (Decimal('205.4000'), 'Denver', 'apartment'),
 (Decimal('311.5000'), 'Denver', 'house'),
 (Decimal('273.7000'), 'Miami', 'apartment'),
 (Decimal('651.4000'), 'Miami', 'house'),
 (Decimal('345.7857'), 'New York', 'apartment'),
 (Decimal('467.9000'), 'New York', 'house'),
 (Decimal('260.3750'), 'Omaha', 'apartment'),
 (Decimal('287.2500'), 'Omaha', 'house'),
 (Decimal('361.8000'), 'Palo Alto', 'apartment'),
 (Decimal('605.9000'), 'Palo Alto', 'house'),
 (Decimal('185.3750'), 'Richmond', 'apartment'),

```
      (Decimal('240.6250'), 'Richmond', 'house'),
      (Decimal('356.6000'), 'San Diego', 'apartment'),
      (Decimal('428.7000'), 'San Diego', 'house'),
      (Decimal('387.2000'), 'San Francisco', 'apartment'),
      (Decimal('427.6000'), 'San Francisco', 'house')]
```

[31]:
```
temp = %sql SELECT AVG(s.sample_nightly_rent_price) as AverageRent, l.city, p.
 ↪apt_house FROM st_rental_prices s INNER JOIN watershed_property_info w ON s.
 ↪location = w.location and s.property_type = w.property_type INNER JOIN␣
 ↪location l ON w.location = l.location_id INNER JOIN property_type p ON s.
 ↪property_type = p.property_type_id GROUP BY l.city, p.apt_house
```

```
 * mysql://studentuser:***@localhost/capstone
28 rows affected.
```

[32]:
```
temp.csv("temp")
```

[32]: CSV results at /home/jovyan/work/temp

[ ]:
```
## Selected Attributes where Watershed property has same location and property␣
 ↪type as short term rentals
```

[16]:
```
%%sql
SELECT w.ws_property_id, l.location_id, l.city, l.state, l.zipcode, p.
 ↪apt_house, p.num_bedrooms, p.kitchen, p.shared, w.current_monthly_rent, st.
 ↪percentile_10th_price, st.percentile_90th_price, st.sample_nightly_rent_price
FROM location as l, property_type as p, watershed_property_info as w,␣
 ↪st_rental_prices as st
WHERE (l.location_id = w.location) and (w.property_type = p.property_type_id)␣
 ↪and (st.property_type = w.property_type) and (st.location = w.location)
```

```
 * mysql://studentuser:***@localhost/capstone
244 rows affected.
```

[16]:
```
[('W1', 'L9531', 'Chapel Hill', 'NC', 27514, 'apartment', '2', 'Y', 'N', 1060,
114, 153, 148),
 ('W10', 'L9533', 'Chapel Hill', 'NC', 27517, 'apartment', '2', 'Y', 'N', 1200,
111, 149, 133),
 ('W100', 'L1944', 'San Francisco', 'CA', 94129, 'apartment', '1', 'Y', 'N',
3300, 108, 610, 372),
 ('W101', 'L15257', 'Austin', 'TX', 78702, 'apartment', '1', 'Y', 'N', 1400,
178, 533, 302),
 ('W102', 'L15257', 'Austin', 'TX', 78702, 'apartment', '2', 'Y', 'N', 2000,
221, 617, 429),
 ('W103', 'L15257', 'Austin', 'TX', 78702, 'house', '1', 'Y', 'N', 1600, 202,
646, 380),
 ('W104', 'L15257', 'Austin', 'TX', 78702, 'house', '2', 'Y', 'N', 2800, 197,
```

```
639, 374),
 ('W105', 'L15260', 'Austin', 'TX', 78705, 'apartment', '1', 'Y', 'N', 1100,
114, 477, 386),
 ('W106', 'L15260', 'Austin', 'TX', 78705, 'apartment', '2', 'Y', 'N', 1900, 80,
583, 212),
 ('W107', 'L15260', 'Austin', 'TX', 78705, 'house', '1', 'Y', 'N', 1800, 239,
1431, 969),
 ('W108', 'L15260', 'Austin', 'TX', 78705, 'house', '2', 'Y', 'N', 3200, 236,
1533, 885),
 ('W109', 'L15264', 'Austin', 'TX', 78723, 'apartment', '1', 'Y', 'N', 1000,
138, 550, 287),
 ('W11', 'L9533', 'Chapel Hill', 'NC', 27517, 'house', '1', 'Y', 'N', 1000, 116,
296, 206),
 ('W110', 'L15264', 'Austin', 'TX', 78723, 'apartment', '2', 'Y', 'N', 1300,
175, 917, 462),
 ('W111', 'L15264', 'Austin', 'TX', 78723, 'house', '1', 'Y', 'N', 1200, 130,
821, 389),
 ('W112', 'L15264', 'Austin', 'TX', 78723, 'house', '2', 'Y', 'N', 1600, 241,
866, 678),
 ('W113', 'L15278', 'Austin', 'TX', 78744, 'apartment', '1', 'Y', 'N', 800, 134,
288, 163),
 ('W114', 'L15278', 'Austin', 'TX', 78744, 'apartment', '2', 'Y', 'N', 1200,
234, 794, 374),
 ('W115', 'L15278', 'Austin', 'TX', 78744, 'house', '1', 'Y', 'N', 900, 252,
547, 444),
 ('W116', 'L15278', 'Austin', 'TX', 78744, 'house', '2', 'Y', 'N', 1100, 246,
616, 426),
 ('W117', 'L15280', 'Austin', 'TX', 78746, 'apartment', '1', 'Y', 'N', 1000,
171, 457, 332),
 ('W118', 'L15280', 'Austin', 'TX', 78746, 'apartment', '2', 'Y', 'N', 1400,
262, 567, 430),
 ('W119', 'L15280', 'Austin', 'TX', 78746, 'house', '1', 'Y', 'N', 1500, 229,
859, 662),
 ('W12', 'L9533', 'Chapel Hill', 'NC', 27517, 'house', '2', 'Y', 'N', 1300, 136,
336, 186),
 ('W120', 'L15280', 'Austin', 'TX', 78746, 'house', '2', 'Y', 'N', 1600, 449,
899, 696),
 ('W121', 'L463', 'Bentonville', 'AR', 72712, 'apartment', '1', 'Y', 'N', 600,
132, 226, 182),
 ('W122', 'L463', 'Bentonville', 'AR', 72712, 'apartment', '2', 'Y', 'N', 800,
157, 340, 241),
 ('W123', 'L463', 'Bentonville', 'AR', 72712, 'house', '1', 'Y', 'N', 700, 215,
377, 363),
 ('W124', 'L463', 'Bentonville', 'AR', 72712, 'house', '2', 'Y', 'N', 1000, 202,
374, 301),
 ('W125', 'L464', 'Bentonville', 'AR', 72719, 'apartment', '1', 'Y', 'N', 700,
94, 356, 212),
```

```
('W126', 'L464', 'Bentonville', 'AR', 72719, 'apartment', '2', 'Y', 'N', 900,
69, 485, 340),
 ('W127', 'L464', 'Bentonville', 'AR', 72719, 'house', '1', 'Y', 'N', 1000, 84,
376, 266),
 ('W128', 'L464', 'Bentonville', 'AR', 72719, 'house', '2', 'Y', 'N', 1200, 109,
490, 442),
 ('W129', 'L2314', 'Denver', 'CO', 80204, 'apartment', '1', 'Y', 'N', 1200, 145,
434, 354),
 ('W13', 'L9534', 'Chapel Hill', 'NC', 27707, 'apartment', '2', 'Y', 'N', 920,
111, 147, 123),
 ('W130', 'L2314', 'Denver', 'CO', 80204, 'apartment', '2', 'Y', 'N', 1300, 228,
457, 377),
 ('W131', 'L2314', 'Denver', 'CO', 80204, 'house', '1', 'Y', 'N', 1100, 90, 375,
318),
 ('W132', 'L2314', 'Denver', 'CO', 80204, 'house', '2', 'Y', 'N', 1200, 128,
238, 198),
 ('W133', 'L2318', 'Denver', 'CO', 80209, 'apartment', '1', 'Y', 'N', 1300, 126,
188, 149),
 ('W134', 'L2318', 'Denver', 'CO', 80209, 'apartment', '2', 'Y', 'N', 1700, 152,
247, 210),
 ('W135', 'L2318', 'Denver', 'CO', 80209, 'house', '1', 'Y', 'N', 1200, 141,
263, 187),
 ('W136', 'L2318', 'Denver', 'CO', 80209, 'house', '2', 'Y', 'N', 1900, 157,
314, 225),
 ('W137', 'L2323', 'Denver', 'CO', 80218, 'apartment', '1', 'Y', 'N', 1000, 93,
159, 123),
 ('W138', 'L2323', 'Denver', 'CO', 80218, 'apartment', '2', 'Y', 'N', 1500, 145,
462, 263),
 ('W139', 'L2323', 'Denver', 'CO', 80218, 'house', '1', 'Y', 'N', 1300, 181,
316, 238),
 ('W14', 'L9534', 'Chapel Hill', 'NC', 27707, 'house', '1', 'Y', 'N', 850, 96,
245, 146),
 ('W140', 'L2323', 'Denver', 'CO', 80218, 'house', '2', 'Y', 'N', 1800, 145,
412, 349),
 ('W141', 'L2325', 'Denver', 'CO', 80220, 'apartment', '1', 'Y', 'N', 1100, 99,
215, 147),
 ('W142', 'L2325', 'Denver', 'CO', 80220, 'apartment', '2', 'Y', 'N', 1400, 120,
188, 151),
 ('W143', 'L2325', 'Denver', 'CO', 80220, 'house', '1', 'Y', 'N', 1300, 263,
489, 429),
 ('W144', 'L2325', 'Denver', 'CO', 80220, 'house', '2', 'Y', 'N', 1900, 335,
502, 441),
 ('W145', 'L2338', 'Denver', 'CO', 80249, 'apartment', '1', 'Y', 'N', 900, 98,
195, 144),
 ('W146', 'L2338', 'Denver', 'CO', 80249, 'apartment', '2', 'Y', 'N', 1400, 77,
260, 136),
 ('W147', 'L2338', 'Denver', 'CO', 80249, 'house', '1', 'Y', 'N', 1400, 173,
```

```
322, 305),
 ('W148', 'L2338', 'Denver', 'CO', 80249, 'house', '2', 'Y', 'N', 1700, 176,
469, 425),
 ('W149', 'L3244', 'Miami', 'FL', 33122, 'apartment', '1', 'Y', 'N', 800, 86,
224, 176),
 ('W15', 'L9534', 'Chapel Hill', 'NC', 27707, 'house', '2', 'Y', 'N', 900, 111,
276, 169),
 ('W150', 'L3244', 'Miami', 'FL', 33122, 'apartment', '2', 'Y', 'N', 1300, 127,
276, 207),
 ('W151', 'L3244', 'Miami', 'FL', 33122, 'house', '1', 'Y', 'N', 1400, 222, 381,
244),
 ('W152', 'L3244', 'Miami', 'FL', 33122, 'house', '2', 'Y', 'N', 1900, 386, 773,
536),
 ('W153', 'L3256', 'Miami', 'FL', 33137, 'apartment', '1', 'Y', 'N', 1700, 136,
476, 476),
 ('W154', 'L3256', 'Miami', 'FL', 33137, 'apartment', '2', 'Y', 'N', 2400, 173,
690, 360),
 ('W155', 'L3256', 'Miami', 'FL', 33137, 'house', '1', 'Y', 'N', 2100, 448,
2128, 1477),
 ('W156', 'L3256', 'Miami', 'FL', 33137, 'house', '2', 'Y', 'N', 3200, 450,
2699, 1265),
 ('W157', 'L3261', 'Miami', 'FL', 33146, 'apartment', '1', 'Y', 'N', 1300, 291,
387, 328),
 ('W158', 'L3261', 'Miami', 'FL', 33146, 'apartment', '2', 'Y', 'N', 1700, 203,
318, 246),
 ('W159', 'L3261', 'Miami', 'FL', 33146, 'house', '1', 'Y', 'N', 1400, 287, 395,
325),
 ('W16', 'L9534', 'Chapel Hill', 'NC', 27707, 'apartment', '1', 'Y', 'N', 750,
51, 179, 94),
 ('W160', 'L3261', 'Miami', 'FL', 33146, 'house', '2', 'Y', 'N', 1900, 376, 502,
428),
 ('W161', 'L3262', 'Miami', 'FL', 33149, 'apartment', '1', 'Y', 'N', 1600, 126,
352, 188),
 ('W162', 'L3262', 'Miami', 'FL', 33149, 'apartment', '2', 'Y', 'N', 2200, 119,
505, 274),
 ('W163', 'L3262', 'Miami', 'FL', 33149, 'house', '1', 'Y', 'N', 1500, 486,
1215, 860),
 ('W164', 'L3262', 'Miami', 'FL', 33149, 'house', '2', 'Y', 'N', 2400, 516,
1650, 729),
 ('W165', 'L3264', 'Miami', 'FL', 33178, 'apartment', '1', 'Y', 'N', 1600, 160,
321, 174),
 ('W166', 'L3264', 'Miami', 'FL', 33178, 'apartment', '2', 'Y', 'N', 1900, 168,
364, 308),
 ('W167', 'L3264', 'Miami', 'FL', 33178, 'house', '1', 'Y', 'N', 1400, 226, 368,
308),
 ('W168', 'L3264', 'Miami', 'FL', 33178, 'house', '2', 'Y', 'N', 2000, 285, 428,
342),
```

```
('W169', 'L10126', 'Omaha', 'NE', 68046, 'apartment', '1', 'Y', 'N', 1000, 91,
342, 229),
 ('W17', 'L4761', 'Chicago', 'IL', 60607, 'apartment', '2', 'Y', 'N', 2500, 173,
581, 392),
 ('W170', 'L10126', 'Omaha', 'NE', 68046, 'apartment', '2', 'Y', 'N', 1400, 168,
392, 322),
 ('W171', 'L10126', 'Omaha', 'NE', 68046, 'house', '1', 'Y', 'N', 1300, 155,
494, 257),
 ('W172', 'L10126', 'Omaha', 'NE', 68046, 'house', '2', 'Y', 'N', 1800, 151,
391, 286),
 ('W173', 'L10130', 'Omaha', 'NE', 68106, 'apartment', '1', 'Y', 'N', 700, 99,
265, 180),
 ('W174', 'L10130', 'Omaha', 'NE', 68106, 'apartment', '2', 'Y', 'N', 900, 154,
286, 230),
 ('W175', 'L10130', 'Omaha', 'NE', 68106, 'house', '1', 'Y', 'N', 1000, 190,
462, 221),
 ('W176', 'L10130', 'Omaha', 'NE', 68106, 'house', '2', 'Y', 'N', 1200, 205,
411, 316),
 ('W177', 'L10133', 'Omaha', 'NE', 68110, 'apartment', '1', 'Y', 'N', 700, 192,
313, 245),
 ('W178', 'L10133', 'Omaha', 'NE', 68110, 'apartment', '2', 'Y', 'N', 1000, 192,
357, 266),
 ('W179', 'L10133', 'Omaha', 'NE', 68110, 'house', '1', 'Y', 'N', 800, 186, 465,
325),
 ('W18', 'L4761', 'Chicago', 'IL', 60607, 'house', '1', 'Y', 'N', 2500, 189,
588, 393),
 ('W180', 'L10133', 'Omaha', 'NE', 68110, 'house', '2', 'Y', 'N', 900, 209, 358,
256),
 ('W181', 'L10136', 'Omaha', 'NE', 68114, 'apartment', '1', 'Y', 'N', 700, 42,
252, 184),
 ('W182', 'L10136', 'Omaha', 'NE', 68114, 'apartment', '2', 'Y', 'N', 1000, 94,
531, 427),
 ('W183', 'L10136', 'Omaha', 'NE', 68114, 'house', '1', 'Y', 'N', 900, 86, 488,
418),
 ('W184', 'L10136', 'Omaha', 'NE', 68114, 'house', '2', 'Y', 'N', 1200, 83, 556,
219),
 ('W185', 'L1882', 'San Diego', 'CA', 91910, 'apartment', '1', 'Y', 'N', 1100,
84, 301, 220),
 ('W186', 'L1882', 'San Diego', 'CA', 91910, 'apartment', '2', 'Y', 'N', 1400,
134, 568, 481),
 ('W187', 'L1882', 'San Diego', 'CA', 91910, 'house', '1', 'Y', 'N', 1300, 109,
615, 280),
 ('W188', 'L1882', 'San Diego', 'CA', 91910, 'house', '2', 'Y', 'N', 1900, 227,
861, 568),
 ('W189', 'L1883', 'San Diego', 'CA', 91950, 'apartment', '1', 'Y', 'N', 900,
176, 440, 318),
 ('W19', 'L4761', 'Chicago', 'IL', 60607, 'house', '2', 'Y', 'N', 2800, 191,
```

```
826, 556),
 ('W190', 'L1883', 'San Diego', 'CA', 91950, 'apartment', '2', 'Y', 'N', 1100,
225, 1033, 538),
 ('W191', 'L1883', 'San Diego', 'CA', 91950, 'house', '1', 'Y', 'N', 1300, 157,
471, 318),
 ('W192', 'L1883', 'San Diego', 'CA', 91950, 'house', '2', 'Y', 'N', 1600, 253,
886, 680),
 ('W193', 'L1887', 'San Diego', 'CA', 92102, 'apartment', '1', 'Y', 'N', 1400,
76, 342, 202),
 ('W194', 'L1887', 'San Diego', 'CA', 92102, 'apartment', '2', 'Y', 'N', 2000,
107, 781, 579),
 ('W195', 'L1887', 'San Diego', 'CA', 92102, 'house', '1', 'Y', 'N', 1700, 162,
614, 524),
 ('W196', 'L1887', 'San Diego', 'CA', 92102, 'house', '2', 'Y', 'N', 2500, 158,
906, 560),
 ('W197', 'L1902', 'San Diego', 'CA', 92118, 'apartment', '1', 'Y', 'N', 1800,
199, 432, 362),
 ('W198', 'L1902', 'San Diego', 'CA', 92118, 'apartment', '2', 'Y', 'N', 2600,
366, 594, 417),
 ('W199', 'L1902', 'San Diego', 'CA', 92118, 'house', '1', 'Y', 'N', 2500, 333,
665, 474),
 ('W2', 'L9531', 'Chapel Hill', 'NC', 27514, 'house', '1', 'Y', 'N', 1500, 81,
205, 146),
 ('W20', 'L4761', 'Chicago', 'IL', 60607, 'apartment', '1', 'Y', 'N', 1700, 106,
465, 312),
 ('W200', 'L1902', 'San Diego', 'CA', 92118, 'house', '2', 'Y', 'N', 3600, 336,
624, 491),
 ('W201', 'L1916', 'San Diego', 'CA', 92154, 'apartment', '1', 'Y', 'N', 1200,
173, 395, 204),
 ('W202', 'L1916', 'San Diego', 'CA', 92154, 'apartment', '2', 'Y', 'N', 1600,
228, 456, 245),
 ('W203', 'L1916', 'San Diego', 'CA', 92154, 'house', '1', 'Y', 'N', 1000, 155,
252, 197),
 ('W204', 'L1916', 'San Diego', 'CA', 92154, 'house', '2', 'Y', 'N', 1500, 158,
236, 195),
 ('W205', 'L12252', 'Columbus', 'OH', 43201, 'apartment', '1', 'Y', 'N', 750,
89, 155, 124),
 ('W206', 'L12252', 'Columbus', 'OH', 43201, 'apartment', '2', 'Y', 'N', 1040,
115, 179, 156),
 ('W207', 'L12252', 'Columbus', 'OH', 43201, 'house', '1', 'Y', 'N', 900, 152,
300, 256),
 ('W208', 'L12252', 'Columbus', 'OH', 43201, 'house', '2', 'Y', 'N', 1400, 175,
368, 284),
 ('W209', 'L12260', 'Columbus', 'OH', 43212, 'apartment', '1', 'Y', 'N', 825,
77, 161, 128),
 ('W21', 'L4765', 'Chicago', 'IL', 60611, 'apartment', '2', 'Y', 'N', 2700, 157,
526, 337),
```

```
('W210', 'L12260', 'Columbus', 'OH', 43212, 'apartment', '2', 'Y', 'N', 1300,
125, 170, 139),
 ('W211', 'L12260', 'Columbus', 'OH', 43212, 'house', '1', 'Y', 'N', 1000, 140,
288, 240),
 ('W212', 'L12260', 'Columbus', 'OH', 43212, 'house', '2', 'Y', 'N', 1480, 175,
310, 249),
 ('W213', 'L12264', 'Columbus', 'OH', 43222, 'apartment', '1', 'Y', 'N', 650,
80, 156, 107),
 ('W214', 'L12264', 'Columbus', 'OH', 43222, 'apartment', '2', 'Y', 'N', 920,
108, 205, 147),
 ('W215', 'L12264', 'Columbus', 'OH', 43222, 'house', '1', 'Y', 'N', 880, 145,
333, 246),
 ('W216', 'L12264', 'Columbus', 'OH', 43222, 'house', '2', 'Y', 'N', 1200, 160,
310, 169),
 ('W217', 'L16888', 'Richmond', 'VA', 23113, 'apartment', '1', 'Y', 'N', 1000,
95, 280, 174),
 ('W218', 'L16888', 'Richmond', 'VA', 23113, 'apartment', '2', 'Y', 'N', 1200,
125, 277, 203),
 ('W219', 'L16888', 'Richmond', 'VA', 23113, 'house', '1', 'Y', 'N', 1400, 209,
384, 240),
 ('W22', 'L4765', 'Chicago', 'IL', 60611, 'house', '1', 'Y', 'N', 2700, 202,
629, 389),
 ('W220', 'L16888', 'Richmond', 'VA', 23113, 'house', '2', 'Y', 'N', 1600, 220,
418, 312),
 ('W221', 'L16887', 'Richmond', 'VA', 23060, 'apartment', '1', 'Y', 'N', 1105,
82, 235, 111),
 ('W222', 'L16887', 'Richmond', 'VA', 23060, 'apartment', '2', 'Y', 'N', 1665,
130, 200, 169),
 ('W223', 'L16887', 'Richmond', 'VA', 23060, 'house', '1', 'Y', 'N', 1175, 106,
267, 201),
 ('W224', 'L16887', 'Richmond', 'VA', 23060, 'house', '2', 'Y', 'N', 1725, 195,
305, 242),
 ('W225', 'L16898', 'Richmond', 'VA', 23234, 'apartment', '1', 'Y', 'N', 709,
86, 192, 158),
 ('W226', 'L16898', 'Richmond', 'VA', 23234, 'apartment', '2', 'Y', 'N', 869,
135, 305, 246),
 ('W227', 'L16898', 'Richmond', 'VA', 23234, 'house', '1', 'Y', 'N', 925, 125,
288, 207),
 ('W228', 'L16898', 'Richmond', 'VA', 23234, 'house', '2', 'Y', 'N', 1350, 119,
360, 224),
 ('W229', 'L16890', 'Richmond', 'VA', 23220, 'apartment', '1', 'Y', 'N', 900,
89, 177, 139),
 ('W23', 'L4765', 'Chicago', 'IL', 60611, 'house', '2', 'Y', 'N', 3200, 195,
844, 325),
 ('W230', 'L16890', 'Richmond', 'VA', 23220, 'apartment', '2', 'Y', 'N', 1325,
161, 319, 283),
 ('W231', 'L16890', 'Richmond', 'VA', 23220, 'house', '1', 'Y', 'N', 975, 145,
```

```
300, 192),
 ('W232', 'L16890', 'Richmond', 'VA', 23220, 'house', '2', 'Y', 'N', 1550, 185,
376, 307),
 ('W233', 'L14416', 'Charleston', 'SC', 29438, 'apartment', '1', 'Y', 'N', 1165,
135, 220, 180),
 ('W234', 'L14416', 'Charleston', 'SC', 29438, 'apartment', '2', 'Y', 'N', 1625,
220, 312, 260),
 ('W235', 'L14416', 'Charleston', 'SC', 29438, 'house', '1', 'Y', 'N', 1400,
135, 287, 232),
 ('W236', 'L14416', 'Charleston', 'SC', 29438, 'house', '2', 'Y', 'N', 1995,
224, 331, 292),
 ('W237', 'L14418', 'Charleston', 'SC', 29470, 'apartment', '1', 'Y', 'N', 760,
100, 195, 169),
 ('W238', 'L14418', 'Charleston', 'SC', 29470, 'apartment', '2', 'Y', 'N', 965,
135, 284, 189),
 ('W239', 'L14418', 'Charleston', 'SC', 29470, 'house', '1', 'Y', 'N', 1185,
157, 320, 289),
 ('W24', 'L4765', 'Chicago', 'IL', 60611, 'apartment', '1', 'Y', 'N', 1700, 98,
430, 239),
 ('W240', 'L14418', 'Charleston', 'SC', 29470, 'house', '2', 'Y', 'N', 1340,
135, 347, 278),
 ('W241', 'L14419', 'Charleston', 'SC', 29487, 'apartment', '1', 'Y', 'N', 1150,
80, 267, 183),
 ('W242', 'L14419', 'Charleston', 'SC', 29487, 'apartment', '2', 'Y', 'N', 2000,
160, 323, 237),
 ('W243', 'L14419', 'Charleston', 'SC', 29487, 'house', '1', 'Y', 'N', 1600,
225, 406, 297),
 ('W244', 'L14419', 'Charleston', 'SC', 29487, 'house', '2', 'Y', 'N', 2150,
170, 447, 360),
 ('W25', 'L4770', 'Chicago', 'IL', 60616, 'apartment', '1', 'Y', 'N', 1600, 94,
411, 209),
 ('W26', 'L4770', 'Chicago', 'IL', 60616, 'apartment', '2', 'Y', 'N', 2100, 130,
438, 265),
 ('W27', 'L4770', 'Chicago', 'IL', 60616, 'house', '1', 'Y', 'N', 1200, 162,
504, 435),
 ('W28', 'L4770', 'Chicago', 'IL', 60616, 'house', '2', 'Y', 'N', 2100, 175,
755, 487),
 ('W29', 'L4794', 'Chicago', 'IL', 60642, 'apartment', '2', 'Y', 'N', 2500, 129,
431, 231),
 ('W3', 'L9531', 'Chapel Hill', 'NC', 27514, 'house', '2', 'Y', 'N', 2000, 97,
240, 199),
 ('W30', 'L4794', 'Chicago', 'IL', 60642, 'house', '1', 'Y', 'N', 2500, 186,
578, 490),
 ('W31', 'L4794', 'Chicago', 'IL', 60642, 'house', '2', 'Y', 'N', 2750, 188,
810, 538),
 ('W32', 'L4794', 'Chicago', 'IL', 60642, 'apartment', '1', 'Y', 'N', 1800, 89,
390, 288),
```

```
('W33', 'L4804', 'Chicago', 'IL', 60654, 'apartment', '2', 'Y', 'N', 3000, 193,
648, 415),
('W34', 'L4804', 'Chicago', 'IL', 60654, 'house', '1', 'Y', 'N', 2000, 193,
600, 387),
('W35', 'L4804', 'Chicago', 'IL', 60654, 'house', '2', 'Y', 'N', 2950, 192,
829, 575),
('W36', 'L4804', 'Chicago', 'IL', 60654, 'apartment', '1', 'Y', 'N', 1700, 98,
432, 228),
('W37', 'L11419', 'New York', 'NY', 10002, 'apartment', '1', 'Y', 'N', 3000,
87, 512, 337),
('W38', 'L11419', 'New York', 'NY', 10002, 'apartment', '2', 'Y', 'N', 3200,
154, 480, 154),
('W39', 'L11421', 'New York', 'NY', 10004, 'apartment', '2', 'Y', 'N', 4500,
273, 853, 432),
('W4', 'L9531', 'Chapel Hill', 'NC', 27514, 'apartment', '1', 'Y', 'N', 800,
53, 188, 104),
('W40', 'L11421', 'New York', 'NY', 10004, 'house', '1', 'Y', 'N', 4500, 103,
807, 200),
('W41', 'L11421', 'New York', 'NY', 10004, 'house', '2', 'Y', 'N', 5500, 200,
770, 428),
('W42', 'L11421', 'New York', 'NY', 10004, 'apartment', '1', 'Y', 'N', 3500,
151, 890, 576),
('W43', 'L11427', 'New York', 'NY', 10014, 'apartment', '2', 'Y', 'N', 4000,
218, 681, 560),
('W44', 'L11427', 'New York', 'NY', 10014, 'apartment', '1', 'Y', 'N', 3000,
109, 640, 288),
('W45', 'L11431', 'New York', 'NY', 10019, 'apartment', '2', 'Y', 'N', 5600,
196, 612, 373),
('W46', 'L11431', 'New York', 'NY', 10019, 'house', '1', 'Y', 'N', 3200, 165,
1296, 420),
('W47', 'L11431', 'New York', 'NY', 10019, 'house', '2', 'Y', 'N', 3500, 268,
1032, 593),
('W48', 'L11431', 'New York', 'NY', 10019, 'apartment', '1', 'Y', 'N', 3400,
106, 624, 436),
('W49', 'L11434', 'New York', 'NY', 10023, 'apartment', '2', 'Y', 'N', 4200,
210, 654, 426),
('W5', 'L9532', 'Chapel Hill', 'NC', 27516, 'apartment', '2', 'Y', 'N', 1100,
111, 148, 142),
('W50', 'L11434', 'New York', 'NY', 10023, 'house', '1', 'Y', 'N', 3000, 133,
1040, 621),
('W51', 'L11434', 'New York', 'NY', 10023, 'house', '2', 'Y', 'N', 3900, 231,
888, 535),
('W52', 'L11434', 'New York', 'NY', 10023, 'apartment', '1', 'Y', 'N', 3600,
137, 808, 196),
('W53', 'L11480', 'New York', 'NY', 11101, 'apartment', '2', 'Y', 'N', 3500,
155, 483, 294),
('W54', 'L11480', 'New York', 'NY', 11101, 'house', '1', 'Y', 'N', 2500, 111,
```

```
868, 471),
 ('W55', 'L11480', 'New York', 'NY', 11101, 'house', '2', 'Y', 'N', 3000, 195,
752, 620),
 ('W56', 'L11480', 'New York', 'NY', 11101, 'apartment', '1', 'Y', 'N', 3000,
80, 469, 235),
 ('W57', 'L11495', 'New York', 'NY', 11211, 'apartment', '2', 'Y', 'N', 3900,
116, 361, 284),
 ('W58', 'L11495', 'New York', 'NY', 11211, 'house', '1', 'Y', 'N', 2800, 102,
799, 355),
 ('W59', 'L11495', 'New York', 'NY', 11211, 'house', '2', 'Y', 'N', 3500, 188,
724, 436),
 ('W6', 'L9532', 'Chapel Hill', 'NC', 27516, 'house', '1', 'Y', 'N', 900, 116,
296, 141),
 ('W60', 'L11495', 'New York', 'NY', 11211, 'apartment', '1', 'Y', 'N', 2600,
69, 406, 250),
 ('W61', 'L1734', 'Palo Alto', 'CA', 94025, 'apartment', '2', 'Y', 'N', 2695,
265, 534, 443),
 ('W62', 'L1734', 'Palo Alto', 'CA', 94025, 'house', '1', 'Y', 'N', 3000, 158,
706, 343),
 ('W63', 'L1734', 'Palo Alto', 'CA', 94025, 'house', '2', 'Y', 'N', 4000, 306,
781, 739),
 ('W64', 'L1734', 'Palo Alto', 'CA', 94025, 'apartment', '1', 'Y', 'N', 2295,
100, 469, 270),
 ('W65', 'L1735', 'Palo Alto', 'CA', 94301, 'apartment', '2', 'Y', 'N', 3000,
270, 543, 424),
 ('W66', 'L1735', 'Palo Alto', 'CA', 94301, 'house', '1', 'Y', 'N', 3300, 283,
1261, 980),
 ('W67', 'L1735', 'Palo Alto', 'CA', 94301, 'house', '2', 'Y', 'N', 4500, 530,
1354, 994),
 ('W68', 'L1735', 'Palo Alto', 'CA', 94301, 'apartment', '1', 'Y', 'N', 2700,
103, 483, 284),
 ('W69', 'L1736', 'Palo Alto', 'CA', 94303, 'apartment', '1', 'Y', 'N', 2700,
110, 515, 236),
 ('W7', 'L9532', 'Chapel Hill', 'NC', 27516, 'house', '2', 'Y', 'N', 1100, 136,
335, 188),
 ('W70', 'L1736', 'Palo Alto', 'CA', 94303, 'apartment', '2', 'Y', 'N', 3000,
270, 544, 329),
 ('W71', 'L1736', 'Palo Alto', 'CA', 94303, 'house', '1', 'Y', 'N', 4500, 231,
1027, 549),
 ('W72', 'L1736', 'Palo Alto', 'CA', 94303, 'house', '2', 'Y', 'N', 4900, 379,
969, 652),
 ('W73', 'L1737', 'Palo Alto', 'CA', 94305, 'apartment', '2', 'Y', 'N', 3300,
264, 532, 378),
 ('W74', 'L1737', 'Palo Alto', 'CA', 94305, 'house', '1', 'Y', 'N', 4500, 151,
673, 255),
 ('W75', 'L1737', 'Palo Alto', 'CA', 94305, 'house', '2', 'Y', 'N', 4200, 278,
711, 441),
```

```
('W76', 'L1737', 'Palo Alto', 'CA', 94305, 'apartment', '1', 'Y', 'N', 2500,
98, 460, 356),
 ('W77', 'L1738', 'Palo Alto', 'CA', 94306, 'apartment', '1', 'Y', 'N', 2500,
108, 507, 437),
 ('W78', 'L1738', 'Palo Alto', 'CA', 94306, 'apartment', '2', 'Y', 'N', 3300,
270, 543, 461),
 ('W79', 'L1738', 'Palo Alto', 'CA', 94306, 'house', '1', 'Y', 'N', 4500, 186,
829, 669),
 ('W8', 'L9532', 'Chapel Hill', 'NC', 27516, 'apartment', '1', 'Y', 'N', 500,
50, 174, 121),
 ('W80', 'L1738', 'Palo Alto', 'CA', 94306, 'house', '2', 'Y', 'N', 4200, 319,
815, 437),
 ('W81', 'L1940', 'San Francisco', 'CA', 94103, 'apartment', '2', 'Y', 'N',
3600, 332, 805, 663),
 ('W82', 'L1940', 'San Francisco', 'CA', 94103, 'house', '1', 'Y', 'N', 4000,
179, 629, 337),
 ('W83', 'L1940', 'San Francisco', 'CA', 94103, 'house', '2', 'Y', 'N', 5500,
227, 813, 447),
 ('W84', 'L1940', 'San Francisco', 'CA', 94103, 'apartment', '1', 'Y', 'N',
3000, 115, 650, 610),
 ('W85', 'L1941', 'San Francisco', 'CA', 94110, 'apartment', '2', 'Y', 'N',
4000, 220, 534, 302),
 ('W86', 'L1941', 'San Francisco', 'CA', 94110, 'house', '1', 'Y', 'N', 4000,
128, 450, 213),
 ('W87', 'L1941', 'San Francisco', 'CA', 94110, 'house', '2', 'Y', 'N', 5000,
152, 546, 364),
 ('W88', 'L1941', 'San Francisco', 'CA', 94110, 'apartment', '1', 'Y', 'N',
3200, 94, 528, 251),
 ('W89', 'L1942', 'San Francisco', 'CA', 94112, 'apartment', '2', 'Y', 'N',
3500, 194, 471, 343),
 ('W9', 'L9533', 'Chapel Hill', 'NC', 27517, 'apartment', '1', 'Y', 'N', 965,
50, 174, 125),
 ('W90', 'L1942', 'San Francisco', 'CA', 94112, 'house', '1', 'Y', 'N', 3200,
138, 485, 251),
 ('W91', 'L1942', 'San Francisco', 'CA', 94112, 'house', '2', 'Y', 'N', 3500,
152, 547, 404),
 ('W92', 'L1942', 'San Francisco', 'CA', 94112, 'apartment', '1', 'Y', 'N',
3000, 77, 432, 161),
 ('W93', 'L1943', 'San Francisco', 'CA', 94118, 'apartment', '1', 'Y', 'N',
2600, 100, 565, 408),
 ('W94', 'L1943', 'San Francisco', 'CA', 94118, 'apartment', '2', 'Y', 'N',
4000, 204, 494, 284),
 ('W95', 'L1943', 'San Francisco', 'CA', 94118, 'house', '1', 'Y', 'N', 4000,
257, 903, 443),
 ('W96', 'L1943', 'San Francisco', 'CA', 94118, 'house', '2', 'Y', 'N', 5100,
256, 916, 718),
 ('W97', 'L1944', 'San Francisco', 'CA', 94129, 'apartment', '2', 'Y', 'N',
```

```
  5600, 265, 644, 478),
   ('W98', 'L1944', 'San Francisco', 'CA', 94129, 'house', '1', 'Y', 'N', 5000,
  236, 829, 533),
   ('W99', 'L1944', 'San Francisco', 'CA', 94129, 'house', '2', 'Y', 'N', 6000,
  244, 872, 566)]
```

[6]:
```
table = %sql SELECT w.ws_property_id, l.location_id, l.city, l.state, l.
↪zipcode, p.apt_house, p.num_bedrooms, p.kitchen, p.shared, w.
↪current_monthly_rent, st.percentile_10th_price, st.percentile_90th_price, st.
↪sample_nightly_rent_price FROM location as l, property_type as p,␣
↪watershed_property_info as w, st_rental_prices as st WHERE (l.location_id =␣
↪w.location) and (w.property_type = p.property_type_id) and (st.property_type␣
↪= w.property_type) and (st.location = w.location)
```

```
 * mysql://studentuser:***@localhost/capstone
244 rows affected.
```

[18]:
```
table.csv("table")
```

[18]: CSV results at /home/jovyan/work/table

[8]:
```
%sql SELECT w.ws_property_id, p.property_type_id FROM watershed_property_info␣
↪w, property_type p WHERE w.property_type = p.property_type_id
```

```
 * mysql://studentuser:***@localhost/capstone
244 rows affected.
```

[8]:
```
[('W1', 'R6'),
 ('W10', 'R6'),
 ('W100', 'R2'),
 ('W101', 'R2'),
 ('W102', 'R6'),
 ('W103', 'R10'),
 ('W104', 'R14'),
 ('W105', 'R2'),
 ('W106', 'R6'),
 ('W107', 'R10'),
 ('W108', 'R14'),
 ('W109', 'R2'),
 ('W11', 'R10'),
 ('W110', 'R6'),
 ('W111', 'R10'),
 ('W112', 'R14'),
 ('W113', 'R2'),
 ('W114', 'R6'),
 ('W115', 'R10'),
 ('W116', 'R14'),
```

```
('W117', 'R2'),
('W118', 'R6'),
('W119', 'R10'),
('W12', 'R14'),
('W120', 'R14'),
('W121', 'R2'),
('W122', 'R6'),
('W123', 'R10'),
('W124', 'R14'),
('W125', 'R2'),
('W126', 'R6'),
('W127', 'R10'),
('W128', 'R14'),
('W129', 'R2'),
('W13', 'R6'),
('W130', 'R6'),
('W131', 'R10'),
('W132', 'R14'),
('W133', 'R2'),
('W134', 'R6'),
('W135', 'R10'),
('W136', 'R14'),
('W137', 'R2'),
('W138', 'R6'),
('W139', 'R10'),
('W14', 'R10'),
('W140', 'R14'),
('W141', 'R2'),
('W142', 'R6'),
('W143', 'R10'),
('W144', 'R14'),
('W145', 'R2'),
('W146', 'R6'),
('W147', 'R10'),
('W148', 'R14'),
('W149', 'R2'),
('W15', 'R14'),
('W150', 'R6'),
('W151', 'R10'),
('W152', 'R14'),
('W153', 'R2'),
('W154', 'R6'),
('W155', 'R10'),
('W156', 'R14'),
('W157', 'R2'),
('W158', 'R6'),
('W159', 'R10'),
```

```
('W16', 'R2'),
('W160', 'R14'),
('W161', 'R2'),
('W162', 'R6'),
('W163', 'R10'),
('W164', 'R14'),
('W165', 'R2'),
('W166', 'R6'),
('W167', 'R10'),
('W168', 'R14'),
('W169', 'R2'),
('W17', 'R6'),
('W170', 'R6'),
('W171', 'R10'),
('W172', 'R14'),
('W173', 'R2'),
('W174', 'R6'),
('W175', 'R10'),
('W176', 'R14'),
('W177', 'R2'),
('W178', 'R6'),
('W179', 'R10'),
('W18', 'R10'),
('W180', 'R14'),
('W181', 'R2'),
('W182', 'R6'),
('W183', 'R10'),
('W184', 'R14'),
('W185', 'R2'),
('W186', 'R6'),
('W187', 'R10'),
('W188', 'R14'),
('W189', 'R2'),
('W19', 'R14'),
('W190', 'R6'),
('W191', 'R10'),
('W192', 'R14'),
('W193', 'R2'),
('W194', 'R6'),
('W195', 'R10'),
('W196', 'R14'),
('W197', 'R2'),
('W198', 'R6'),
('W199', 'R10'),
('W2', 'R10'),
('W20', 'R2'),
('W200', 'R14'),
```

```
('W201', 'R2'),
('W202', 'R6'),
('W203', 'R10'),
('W204', 'R14'),
('W205', 'R2'),
('W206', 'R6'),
('W207', 'R10'),
('W208', 'R14'),
('W209', 'R2'),
('W21', 'R6'),
('W210', 'R6'),
('W211', 'R10'),
('W212', 'R14'),
('W213', 'R2'),
('W214', 'R6'),
('W215', 'R10'),
('W216', 'R14'),
('W217', 'R2'),
('W218', 'R6'),
('W219', 'R10'),
('W22', 'R10'),
('W220', 'R14'),
('W221', 'R2'),
('W222', 'R6'),
('W223', 'R10'),
('W224', 'R14'),
('W225', 'R2'),
('W226', 'R6'),
('W227', 'R10'),
('W228', 'R14'),
('W229', 'R2'),
('W23', 'R14'),
('W230', 'R6'),
('W231', 'R10'),
('W232', 'R14'),
('W233', 'R2'),
('W234', 'R6'),
('W235', 'R10'),
('W236', 'R14'),
('W237', 'R2'),
('W238', 'R6'),
('W239', 'R10'),
('W24', 'R2'),
('W240', 'R14'),
('W241', 'R2'),
('W242', 'R6'),
('W243', 'R10'),
```

```
('W244', 'R14'),
('W25', 'R2'),
('W26', 'R6'),
('W27', 'R10'),
('W28', 'R14'),
('W29', 'R6'),
('W3', 'R14'),
('W30', 'R10'),
('W31', 'R14'),
('W32', 'R2'),
('W33', 'R6'),
('W34', 'R10'),
('W35', 'R14'),
('W36', 'R2'),
('W37', 'R2'),
('W38', 'R6'),
('W39', 'R6'),
('W4', 'R2'),
('W40', 'R10'),
('W41', 'R14'),
('W42', 'R2'),
('W43', 'R6'),
('W44', 'R2'),
('W45', 'R6'),
('W46', 'R10'),
('W47', 'R14'),
('W48', 'R2'),
('W49', 'R6'),
('W5', 'R6'),
('W50', 'R10'),
('W51', 'R14'),
('W52', 'R2'),
('W53', 'R6'),
('W54', 'R10'),
('W55', 'R14'),
('W56', 'R2'),
('W57', 'R6'),
('W58', 'R10'),
('W59', 'R14'),
('W6', 'R10'),
('W60', 'R2'),
('W61', 'R6'),
('W62', 'R10'),
('W63', 'R14'),
('W64', 'R2'),
('W65', 'R6'),
('W66', 'R10'),
```

```
       ('W67', 'R14'),
       ('W68', 'R2'),
       ('W69', 'R2'),
       ('W7', 'R14'),
       ('W70', 'R6'),
       ('W71', 'R10'),
       ('W72', 'R14'),
       ('W73', 'R6'),
       ('W74', 'R10'),
       ('W75', 'R14'),
       ('W76', 'R2'),
       ('W77', 'R2'),
       ('W78', 'R6'),
       ('W79', 'R10'),
       ('W8', 'R2'),
       ('W80', 'R14'),
       ('W81', 'R6'),
       ('W82', 'R10'),
       ('W83', 'R14'),
       ('W84', 'R2'),
       ('W85', 'R6'),
       ('W86', 'R10'),
       ('W87', 'R14'),
       ('W88', 'R2'),
       ('W89', 'R6'),
       ('W9', 'R2'),
       ('W90', 'R10'),
       ('W91', 'R14'),
       ('W92', 'R2'),
       ('W93', 'R2'),
       ('W94', 'R6'),
       ('W95', 'R10'),
       ('W96', 'R14'),
       ('W97', 'R6'),
       ('W98', 'R10'),
       ('W99', 'R14')]
```

[4]:
```
a.csv("a")
```

[4]: CSV results at /home/jovyan/work/a

[10]:
```
%sql SELECT COUNT(DISTINCT property_type) FROM watershed_property_info
```

   * mysql://studentuser:***@localhost/capstone
1 rows affected.

[10]: [(4,)]

```
[35]: ## Number of days the room was occupied
```

```
[36]: date = %sql SELECT w.ws_property_id, COUNT(sr.rental_date) FROM␣
      →watershed_property_info w INNER JOIN st_property_info s ON w.property_type =␣
      →s.property_type and w.location = s.location INNER JOIN st_rental_dates sr ON␣
      →s.st_property_id = sr.st_property WHERE YEAR(rental_date) = "2015" GROUP BY␣
      →sr.st_property;
```

       * mysql://studentuser:***@localhost/capstone
      244 rows affected.

```
[26]: %sql SELECT * FROM st_rental_dates WHERE st_property="ST100" and␣
      →YEAR(rental_date) = "2015"
```

       * mysql://studentuser:***@localhost/capstone
      145 rows affected.

```
[26]: [(datetime.date(2015, 1, 7), 'ST100'),
       (datetime.date(2015, 1, 8), 'ST100'),
       (datetime.date(2015, 1, 9), 'ST100'),
       (datetime.date(2015, 1, 12), 'ST100'),
       (datetime.date(2015, 1, 16), 'ST100'),
       (datetime.date(2015, 1, 17), 'ST100'),
       (datetime.date(2015, 1, 18), 'ST100'),
       (datetime.date(2015, 1, 23), 'ST100'),
       (datetime.date(2015, 1, 24), 'ST100'),
       (datetime.date(2015, 1, 25), 'ST100'),
       (datetime.date(2015, 1, 27), 'ST100'),
       (datetime.date(2015, 1, 29), 'ST100'),
       (datetime.date(2015, 2, 3), 'ST100'),
       (datetime.date(2015, 2, 4), 'ST100'),
       (datetime.date(2015, 2, 7), 'ST100'),
       (datetime.date(2015, 2, 11), 'ST100'),
       (datetime.date(2015, 2, 12), 'ST100'),
       (datetime.date(2015, 2, 15), 'ST100'),
       (datetime.date(2015, 2, 22), 'ST100'),
       (datetime.date(2015, 2, 23), 'ST100'),
       (datetime.date(2015, 2, 26), 'ST100'),
       (datetime.date(2015, 2, 27), 'ST100'),
       (datetime.date(2015, 2, 28), 'ST100'),
       (datetime.date(2015, 3, 2), 'ST100'),
       (datetime.date(2015, 3, 3), 'ST100'),
       (datetime.date(2015, 3, 9), 'ST100'),
       (datetime.date(2015, 3, 11), 'ST100'),
       (datetime.date(2015, 3, 19), 'ST100'),
       (datetime.date(2015, 3, 20), 'ST100'),
       (datetime.date(2015, 3, 21), 'ST100'),
```

```
(datetime.date(2015, 3, 23), 'ST100'),
(datetime.date(2015, 3, 27), 'ST100'),
(datetime.date(2015, 3, 29), 'ST100'),
(datetime.date(2015, 3, 30), 'ST100'),
(datetime.date(2015, 3, 31), 'ST100'),
(datetime.date(2015, 4, 1), 'ST100'),
(datetime.date(2015, 4, 3), 'ST100'),
(datetime.date(2015, 4, 6), 'ST100'),
(datetime.date(2015, 4, 7), 'ST100'),
(datetime.date(2015, 4, 8), 'ST100'),
(datetime.date(2015, 4, 11), 'ST100'),
(datetime.date(2015, 4, 12), 'ST100'),
(datetime.date(2015, 4, 14), 'ST100'),
(datetime.date(2015, 4, 15), 'ST100'),
(datetime.date(2015, 4, 17), 'ST100'),
(datetime.date(2015, 4, 18), 'ST100'),
(datetime.date(2015, 4, 19), 'ST100'),
(datetime.date(2015, 4, 21), 'ST100'),
(datetime.date(2015, 4, 22), 'ST100'),
(datetime.date(2015, 4, 25), 'ST100'),
(datetime.date(2015, 5, 2), 'ST100'),
(datetime.date(2015, 5, 3), 'ST100'),
(datetime.date(2015, 5, 6), 'ST100'),
(datetime.date(2015, 5, 7), 'ST100'),
(datetime.date(2015, 5, 8), 'ST100'),
(datetime.date(2015, 5, 10), 'ST100'),
(datetime.date(2015, 5, 17), 'ST100'),
(datetime.date(2015, 5, 19), 'ST100'),
(datetime.date(2015, 5, 21), 'ST100'),
(datetime.date(2015, 5, 24), 'ST100'),
(datetime.date(2015, 5, 26), 'ST100'),
(datetime.date(2015, 5, 28), 'ST100'),
(datetime.date(2015, 5, 30), 'ST100'),
(datetime.date(2015, 6, 2), 'ST100'),
(datetime.date(2015, 6, 3), 'ST100'),
(datetime.date(2015, 6, 4), 'ST100'),
(datetime.date(2015, 6, 6), 'ST100'),
(datetime.date(2015, 6, 7), 'ST100'),
(datetime.date(2015, 6, 8), 'ST100'),
(datetime.date(2015, 6, 12), 'ST100'),
(datetime.date(2015, 6, 15), 'ST100'),
(datetime.date(2015, 6, 17), 'ST100'),
(datetime.date(2015, 6, 18), 'ST100'),
(datetime.date(2015, 6, 25), 'ST100'),
(datetime.date(2015, 6, 26), 'ST100'),
(datetime.date(2015, 6, 30), 'ST100'),
(datetime.date(2015, 7, 2), 'ST100'),
```

```
(datetime.date(2015, 7, 6), 'ST100'),
(datetime.date(2015, 7, 7), 'ST100'),
(datetime.date(2015, 7, 9), 'ST100'),
(datetime.date(2015, 7, 12), 'ST100'),
(datetime.date(2015, 7, 17), 'ST100'),
(datetime.date(2015, 7, 19), 'ST100'),
(datetime.date(2015, 7, 21), 'ST100'),
(datetime.date(2015, 7, 29), 'ST100'),
(datetime.date(2015, 8, 5), 'ST100'),
(datetime.date(2015, 8, 12), 'ST100'),
(datetime.date(2015, 8, 15), 'ST100'),
(datetime.date(2015, 8, 16), 'ST100'),
(datetime.date(2015, 8, 18), 'ST100'),
(datetime.date(2015, 8, 20), 'ST100'),
(datetime.date(2015, 8, 21), 'ST100'),
(datetime.date(2015, 8, 26), 'ST100'),
(datetime.date(2015, 8, 27), 'ST100'),
(datetime.date(2015, 9, 1), 'ST100'),
(datetime.date(2015, 9, 3), 'ST100'),
(datetime.date(2015, 9, 4), 'ST100'),
(datetime.date(2015, 9, 6), 'ST100'),
(datetime.date(2015, 9, 7), 'ST100'),
(datetime.date(2015, 9, 11), 'ST100'),
(datetime.date(2015, 9, 12), 'ST100'),
(datetime.date(2015, 9, 15), 'ST100'),
(datetime.date(2015, 9, 19), 'ST100'),
(datetime.date(2015, 9, 23), 'ST100'),
(datetime.date(2015, 9, 27), 'ST100'),
(datetime.date(2015, 9, 30), 'ST100'),
(datetime.date(2015, 10, 2), 'ST100'),
(datetime.date(2015, 10, 3), 'ST100'),
(datetime.date(2015, 10, 4), 'ST100'),
(datetime.date(2015, 10, 6), 'ST100'),
(datetime.date(2015, 10, 10), 'ST100'),
(datetime.date(2015, 10, 13), 'ST100'),
(datetime.date(2015, 10, 18), 'ST100'),
(datetime.date(2015, 10, 20), 'ST100'),
(datetime.date(2015, 10, 29), 'ST100'),
(datetime.date(2015, 11, 2), 'ST100'),
(datetime.date(2015, 11, 4), 'ST100'),
(datetime.date(2015, 11, 5), 'ST100'),
(datetime.date(2015, 11, 6), 'ST100'),
(datetime.date(2015, 11, 9), 'ST100'),
(datetime.date(2015, 11, 15), 'ST100'),
(datetime.date(2015, 11, 17), 'ST100'),
(datetime.date(2015, 11, 19), 'ST100'),
(datetime.date(2015, 11, 23), 'ST100'),
```

```
      (datetime.date(2015, 11, 24), 'ST100'),
      (datetime.date(2015, 11, 26), 'ST100'),
      (datetime.date(2015, 11, 27), 'ST100'),
      (datetime.date(2015, 11, 29), 'ST100'),
      (datetime.date(2015, 12, 3), 'ST100'),
      (datetime.date(2015, 12, 4), 'ST100'),
      (datetime.date(2015, 12, 5), 'ST100'),
      (datetime.date(2015, 12, 6), 'ST100'),
      (datetime.date(2015, 12, 7), 'ST100'),
      (datetime.date(2015, 12, 10), 'ST100'),
      (datetime.date(2015, 12, 15), 'ST100'),
      (datetime.date(2015, 12, 16), 'ST100'),
      (datetime.date(2015, 12, 17), 'ST100'),
      (datetime.date(2015, 12, 18), 'ST100'),
      (datetime.date(2015, 12, 19), 'ST100'),
      (datetime.date(2015, 12, 24), 'ST100'),
      (datetime.date(2015, 12, 25), 'ST100'),
      (datetime.date(2015, 12, 28), 'ST100'),
      (datetime.date(2015, 12, 29), 'ST100'),
      (datetime.date(2015, 12, 30), 'ST100'),
      (datetime.date(2015, 12, 31), 'ST100')]
```

[37]: `date.csv("date")`

[37]: CSV results at /home/jovyan/work/date

[18]:
```
date = %sql SELECT w.ws_property_id, w.location, w.property_type, w.
      ↪current_monthly_rent, st.st_property_id, s.rental_date FROM␣
      ↪watershed_property_info w INNER JOIN st_property_info st ON w.location = st.
      ↪location and w.property_type=st.property_type INNER JOIN st_rental_dates s␣
      ↪ON st.st_property_id = s.st_property WHERE YEAR(s.rental_date) = 2015
```

 * mysql://studentuser:***@localhost/capstone
40613 rows affected.

[19]: `date.csv("date")`

[19]: CSV results at /home/jovyan/work/date

[16]: `a = %sql SELECT * FROM st_property_`

 * mysql://studentuser:***@localhost/capstone
244 rows affected.

[17]: `a.csv("a")`

[17]: CSV results at /home/jovyan/work/a

[ ]: