Sandy Feet Rental Company (SFRC)

# Business Information

The Sandy Feet Rental Company rents condominiums at the Sandy Feet Oceanside resort. There are currently two buildings, the Sands and the Tides. Each building has two and three bedroom condos with two bathrooms. In the Sands building, some condos have a view of the ocean (oceanview) and some have a balcony facing the ocean (oceanfront). All oceanfront condos rent for more than the oceanview properties. The Tides building is away from the beach, near the back of the resort property. These properties do not have a view of the ocean and the beach is a short walk through the resort.

Every property SFRC has available rents per week (minimum of 7 nights), they do not take daily rates, and check-in is always on a Saturday. The rate schedule varies by location, number of bedrooms, and season of the year. There are some properties which have high–speed Internet access and there are some properties that accept pets. When a client makes a reservation, they pay a $100 deposit, which is deducted from their balance in the end. Renters also pay a cleaning fee which varies depending on the number of bedrooms the property has. If renters choose to bring a pet(s), they pay a $150 **nonrefundable** deposit. Only cats and dogs are allowed, no other pets.

SFRC is looking to move from a paper-driven system to a database. They deal with customers, owners, transactions, housekeeping charges, etc. They take in all monies, pay housekeeping per unit (cleaning) and disperse only 75% of the “Total Rent” to the property owners while keeping 25% of the “Total Rent” for their services. The cleaning crew charges $50 for two bedrooms and $60 for three bedrooms. Pet Deposits are kept by SFRC to pay for extra cleaning and any damage repairs. There is no tax to be considered at this time.

NOTE: While there are rates available, you will not have to determine the rate since you will not be writing code to create transactions. You will however need to have a rate table so that you could look it up if you had to. You do not need to verify the rates in the transaction, you can assume they were correct when the transaction was made.

# Designing the Tables

Data is given to you by tables; however, you still need to work out the exact design for each table. Use the next sheet for planning this project.

**Table/field naming conventions**

* **Singular**, where possible
* **Lowercase**, using an underscore to join multiple words
* D**escriptive names**, but use as few words as possible and still be descriptive.

**Designing tables/fields**

* List all fields
* Identify data types
* Group fields into tables
* Make sure each field is broken down into its smallest unit of data
* Identify all keys
* **Primary Key**: Use **\_id** on the end of the fieldname, use INT, auto-increment unless you can justify a different datatype.
* **Foreign Key**: It is recommended to use the same fieldname as the PK fieldname that this FK relates to. The datatype must be kept the same.
* Indexes: Use **\_ix** on the end of the fieldname.

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# Creating your database and tables – \*script required (50 points)

1. Create your project database. Name your database **SFRC\_username**. **(5 points)**

**Note:** the database name is case sensitive. SFRC must be ALL CAPS, username must be lower case.

(For example my database name needs to be SFRC\_karenrhughes.)

1. Based on your designs, create the tables. **(20 points)**
2. \*\*Based on your tables, populate the tables. **(25 points)**

\*If not using inserts, use documentation in your script file to provide the command(s) for populating the tables. Why - because I might need to run all your code when grading.

\*\*have consistency in your data – example: Rd or Rd. or Road

# SFRC business questions – script required (5 each = 50 points)

Always show monetary amounts to 2 decimal places. Each business question is to be coded with only **one** **statement**. You may need to run several to help you figure it out, but the end result is to be ONE query.

**Save each query as a .sql file and use the name provided for each question number. For example question 1:** **Q1\_AverageRate.sql**).

**You will need to upload these individual scripts when you submit your completed project.**

**You will also need to insert your SQL statement and Result Set with each business question below.**

1. From the rate table, list the average rental rate for each type of property. (Notice this is not what is was rented for, but what could be charged throughout the year).

***Q1AverageRate SQL statement***

***Q1AverageRate Result Set***

1. SFRC would like to contact owners of “non-rented” properties to discuss offering promotions to encourage rentals. List the properties (along with owner name and contact info) which have never been rented.

***Q2\_NonRentedProperty SQL statement***

***Q2\_NonRentedProperty Result Set***

1. If SFRC wanted to recognize the “most frequent renter(s),” who would be recognized?

***Q3\_MostFreqRenters SQL statement***

***Q3\_MostFreqRenters Result Set***

1. SFRC wants to send a Summer Coupon to all 2019 renters. Please provide a list of names and address of people who rented in 2019.

***Q4\_SummerCoupon SQL statement***

***Q4\_SummerCoupon Result Set***

1. SFRC is thinking of increasing rates for oceanview condos only, please provide a list of the current rate along with a 6% increase in rates … do not update the rates. SFRC just wants to show “new” rates to “old” ones.

***Q5\_Rate\_NewRate SQL statement***

***Q5\_Rate\_NewRate Result Set***

1. Provide a list with the following information for each property and include a total line for each year as well as a total for all properties. ***(Note: I added the individual parts to help you work through this question.)***
   1. Property ID

***Q6a\_PropertyID SQL statement***

***Q6a\_PropertyID Result Set***

* 1. Total Rent (total rent collected for a particular property)

***Q6b\_TotalRent SQL statement***

***Q6b\_TotalRent Result Set***

* 1. Cleaning (total cleaning fees collected for a particular property)

***Q6c\_TotalCleaningFees SQL statement***

***Q6c\_TotalCleaningFees Result Set***

* 1. Pets (total pet deposits collected for a particular property

***Q6d\_TotalPetDeposits SQL statement***

***Q6d\_TotalPetDeposits Result Set***

* 1. Property Total Collected (total rent + cleaning fees + pet deposits)

***Q6e\_PropertyTotal SQL statement***

***Q6e\_PropertyTotal Result Set***

* 1. SFRC Fees (amount of the **Total Rent** which goes to SFRC)

***Q6f\_SFRCFees SQL statement***

***Q6f\_SFRCFees Result Set***

* 1. Owner Amount (amount of the **Total Rent** which goes to the owner)

***Q6g\_OwnerAmt SQL statement***

***Q6g\_OwnerAmt Result Set***

***Q6\_PropertyTotals SQL statement (Note: This is the final SQL statement with all parts.)***

***Q6\_PropertyTotals Result Set***

1. How much money has SFRC received per each method of payment? Include a total line.

Hint: Total collected here should be the same as what you get for 6e.

***Q7\_PaymentMethodTotal SQL statement***

***Q7\_PaymentMethodTotal Result Set***

1. Make up another question which involves at least two tables (criteria required). Be sure to include the questions as a comment in your .sql file.

***Q8\_TwoTable SQL statement***

***Q8\_TwoTable Result Set***

1. Make up another question which involves at least three tables (criteria and aggregates required). Provide the question, code and result.

***Q9\_ThreeTable SQL statement***

***Q9\_ThreeTable Result Set***

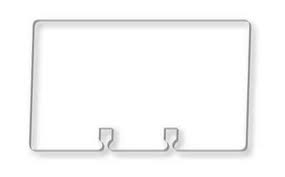
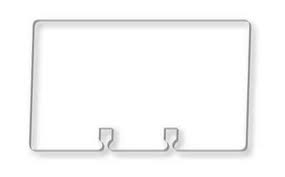
1. All of our properties now have Internet access. Create a query for this update.

***Q10\_InternetUpdate SQL statement***

***Q10\_InternetUpdate Result Set***

# Existing Data Collection Examples

Information for Clients, Property Owners and Property Details is currently kept on rolodexes.

[](http://www.google.com/imgres?q=rolodex+card&start=119&hl=en&biw=1120&bih=792&tbm=isch&tbnid=f1cZQS9Bh3nPLM:&imgrefurl=http://www.happyscrappinscrapbooking.com/pfg020-p-pageframedesignsmedshapes.html&docid=cLqOe7h0QhIFpM&imgurl=http://www.happyscrappinscrapbooking.com/mm5/graphics/pfg020.jpg&w=400&h=249&ei=AGKJUIuVNobo8gTOn4CABA&zoom=1&iact=hc&vpx=368&vpy=310&dur=6762&hovh=177&hovw=285&tx=170&ty=84&sig=103015854196754716296&page=6&tbnh=145&tbnw=255&ndsp=25&ved=1t:429,r:25,s:100,i:79)

Owner ID \_O01\_\_ PropertyID \_\_301S\_\_

Owner Name \_\_Sandy Claus\_\_\_\_\_\_\_\_\_\_

Address\_123 North Pole Drive\_\_\_\_\_\_\_\_

\_\_Snowshoe, PA 23987\_\_\_\_\_\_\_\_\_\_\_\_

Phone \_\_(404) 678-0909\_\_\_\_\_\_\_\_\_\_\_\_

Email \_\_\_sandyclaus@com.net\_\_\_\_\_\_\_

Client ID \_C001\_\_\_\_\_\_

Name \_\_Harriet O’Casey\_\_\_\_\_\_\_\_\_\_\_\_

Address \_\_\_4088 Ottumwa Way\_\_\_\_\_\_

\_\_Mentira, IL 61788\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phone \_\_\_\_(303) 417-4438\_\_\_\_\_\_\_\_\_\_

Email \_harrieto@com.net\_\_\_\_\_\_\_\_\_\_\_\_

# [http://t1.gstatic.com/images?q=tbn:ANd9GcRKAr4LQkovvpUSHfpHUSeIRDHIWuZZOl7UoquZ0AclVPNWhVc8](http://www.google.com/imgres?q=rolodex+card&start=119&hl=en&biw=1120&bih=792&tbm=isch&tbnid=f1cZQS9Bh3nPLM:&imgrefurl=http://www.happyscrappinscrapbooking.com/pfg020-p-pageframedesignsmedshapes.html&docid=cLqOe7h0QhIFpM&imgurl=http://www.happyscrappinscrapbooking.com/mm5/graphics/pfg020.jpg&w=400&h=249&ei=AGKJUIuVNobo8gTOn4CABA&zoom=1&iact=hc&vpx=368&vpy=310&dur=6762&hovh=177&hovw=285&tx=170&ty=84&sig=103015854196754716296&page=6&tbnh=145&tbnw=255&ndsp=25&ved=1t:429,r:25,s:100,i:79)

Property ID \_301\_\_ SANDS TIDES

Condo Type \_\_SandsOF3BR\_\_\_\_\_\_\_\_

Accepts Pets YES NO

High Speed Internet YES NO

Current Rate Information is kept on index cards, one for each desk in the office.

# [http://t3.gstatic.com/images?q=tbn:ANd9GcQA2dalLwob86gQrjYgYK4QDOFCa_DGzEzdTC8gagNy5ni0jRqIqA](http://www.google.com/imgres?q=index+card&um=1&hl=en&sa=N&biw=1120&bih=792&tbm=isch&tbnid=CASXzk8mWdqINM:&imgrefurl=http://s306.photobucket.com/albums/nn278/sangjane/names%20wd2/?action=view&current=IndexCard.gif&newest=1&docid=WxvjruTux6ya9M&imgurl=http://i306.photobucket.com/albums/nn278/sangjane/names%20wd2/IndexCard.gif&w=431&h=293&ei=ZGqJUPn6Eomk8QT57YGoBQ&zoom=1&iact=hc&vpx=805&vpy=144&dur=1333&hovh=185&hovw=272&tx=169&ty=98&sig=103015854196754716296&page=1&tbnh=137&tbnw=201&start=0&ndsp=14&ved=1t:429,r:9,s:0,i:170)

Sandy Feet 2020 Rates

Condo Type 1/01-3/31 4/01-5/31 6/01-8/31 9/01-10/31 11/01-12/31

SandsOF2BR 400 475 600 475 400

SandsOF3BR 450 525 650 525 450

SandsOV2BR 375 425 575 425 375

SandsOV3BR 425 475 625 475 425

Tides2BR 350 375 450 375 350

Tides3BR 375 400 500 400 375

Client ID \_C001\_\_\_\_\_\_

Name \_\_Harriet O’Casey\_\_\_\_\_\_\_\_\_\_\_\_

Address \_\_\_4088 Ottumwa Way\_\_\_\_\_\_

\_\_Mentira, IL 61788\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Phone \_\_\_\_(303) 417-4438\_\_\_\_\_\_\_\_\_\_

Email \_harrieto@com.net\_\_\_\_\_\_\_\_\_\_\_\_

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| Sandy Feet Rental Company | | | | | | | | | |
| **Reservations/Rental Transactions** | | | | | | | | | |
| Property ID | Client  ID | Arrival Date | Depart Date | Rental Deposit | Pet Deposit | Pet Type | Cleaning Fee | Rental Rate | Method of Payment |
| 1005S | C009 | 01/07/2019 | 01/21/2019 | 100.00 |  |  | 60.00 | 800.00 | Check |
| 505T | C006 | 02/07/2019 | 02/14/2019 | 100.00 | 150.00 | Cat | 60.00 | 350.00 | Check |
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Reservation/Rental Information is kept in a simple ledger.

# SFRC Data

Renters Information

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| Harriet O'Casey | 4088 Ottumwa Way Mentira, IL 61788 | (303)417-4438 | harrieto@com.net |
| John Grainger | 2256 N Santa Fe Dr. Iliase, MD 23456 | (303)444-4475 | johnny@com.net |
| Steve Snider | 39430 Big Rock Road Flame Throw, TN 59012 | (717)420-1212 | snidley@com.net |
| David Stocking | 291-A Gorgonzola Cleo, KS 81029 | (616)410-2990 | stockingfeet@com.net |
| Frank Wheeler | 2225 Iola Ave Catuchi, PA 56231 | (303)414-0404 | fwheeler@com.net |
| Brittany Foxe | 297-B Gorgonzola Cleo, KS 81029 | (616)410-2942 | bfoxy@com.net |
| Fran McCoy | 1440 Manchester Way Mountain View, CO 87757 | (303)477-8787 | franm@com.net |
| Joan Thomas | 667438 E. 91st St. Baseboard, PA 56987 | (616)684-9385 | joanie@com.net |
| Ted Stiggle | 12920 Industrial Workers Scraggy View, CO 82191 | (303)421-1410 | thestig@com.net |
| Dean Farrell | 121 Highway 80 Excelsior, MD 23498 | (717)483-3111 | farrelld@com.net |
| Marsha Waltz | 1900 Industrial Way Fargone, NC 41923 | (215)419-2349 | waltzer@com.net |
| Janet Logan | 860 Charleston St. Oxalys, NY 54133 | (303)441-1321 | janetlogan@com.net |
| Linda Paloma | 1928 Highway 12 Portugal, NC 82394 | (317)423-9417 | palomafam@com.net |
| Gregory Hansen | 6065 Rainbow Falls Rd Roselle, PA 57203 | (505)472-0398 | gregghansen@com.net |
| Pat Carroll | 4018 Landers Lane Lafayette, OH 34548 | (303)476-2718 | pcarroll@com.net |
| Bee Wolf | 1775 Bear Trail Outcroppin, WY 74345 | (404)443-4863 | beew@com.net |
| Scott Crumple | 580 E Main St. La Garita, CO 88413 | (303)444-1324 |  |
| Elliot Harvey | 34 Kerry Drive El Mano, MD 23646 | (505)406-4647 |  |
| Carrie Zygote | 8607 Ferndale St Montgomery, AL 60631 | (303)406-3104 | carriez@com.net |
| Abbie Loftus | 8077 Montana Place Big Fish, MT 86505 | (606)468-0858 | aloftus@com.net |
| Micah Dowenger | 1515 Elliot Way, Asheville, NC 28801 | (828)121-6445 | mdowenger@com.net |

Property/Owner Information

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| **Property** | **Type** | **Pet** | **Net** | **Owner** | **Address** | **Phone** | **Email** |
| 301S | SandsOF3BR | Yes | Yes | Sandy Claus | 123 North Pole Dr. Snowshoe, PA 23987 | (404)678-0909 | sandyclaus@com.net |
| 207S | SandsOV3BR | Yes | Yes | Richard Compote | 645 Snowpass Road Plymouth, MD 48170 | (413)555-9876 | richc@com.net |
| 1100T | Tides3BR | No | No | Lucille Livingood | 63 Park Avenue New York, NY 12340 | (007)555-3636 | livingood@com.net |
| 1201T | Tides3BR | No | Yes | Charles Brown | 8706 Main Street Snowshoe, CO 48000 | (303)555-1236 | charlie@com.net |
| 317S | SandsOF2BR | No | Yes | Jack Bauer | 469 Carriage Hill Dr Washington, DC 20001 | (713)555-3872 | jackbauer@com.net |
| 110T | Tides2BR | No | Yes | Barbie Beckwith | 9010 Upper Crust Way Littleton, NY 20127 | (007)555-9999 | babs@com.net |
| 1010S | SandsOV2BR | No | No | Barney Rubble | 1616 Stonehenge Granite, CO 80234 | (720)555-1456 | rockhead@com.net |
| 409S | SandsOF2BR | Yes | Yes | Fred Flintstone | 26 Quarry Drive Granite, CO 80234 | (720)555-7676 | freddie@com.net |
| 505T | Tides2BR | Yes | No | Larry Lizard | 908 Green Mtn Rd. Green Mountain, UT 23987 | (765)555-4392 | lizard@com.net |
| 1005T | Tides3BR | Yes | Yes | Gwen Grizzlie | 56231 Bear Lane Bear Lake, MD 23123 | (413)678-9808 | griz@com.net |
| 656S | SandsOV2BR | Yes | No | Olivia Pope | 878 Fort Road Washington, DC 20001 | (404)555-8877 | opa@com.net |
| 942S | SandsOF3BR | No | No | Robert Smith | 5223 Mountain Lane Ft. Morgan, WV 34665 | (505)555-1456 | bobbys@com.net |
| 517T | Tides3BR | Yes | Yes | Luke Taylors | 375 Windward Way, Asheville, NC 28801 | (828)445-9776 | luket@com.net |

Transaction Information

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| **Property** | **Client** | **Arrival** | **Departure** | **Deposit** | **Pet Deposit** | **Pet Type** | **Rental Fee** | **Payment Method** |
| 1100T | Carrie Zygote | 2019-01-06 | 2019-01-13 | 100.00 |  |  | 375.00 | Cash |
| 317S | Joan Thomas | 2019-01-13 | 2019-01-27 | 100.00 |  |  | 800.00 | AMEX |
| 1005T | Ted Stiggle | 2019-01-20 | 2019-02-03 | 100.00 |  |  | 750.00 | Check |
| 505T | Brittany Foxe | 2019-02-03 | 2019-02-24 | 100.00 | 150.00 | cat | 1050.00 | Check |
| 207S | Carrie Zygote | 2019-02-17 | 2019-02-24 | 100.00 | 150.00 | dog | 375.00 | Visa |
| 942S | Fran McCoy | 2019-02-10 | 2019-02-24 | 100.00 |  |  | 900.00 | AMEX |
| 110T | David Stocking | 2019-02-24 | 2019-03-03 | 100.00 |  |  | 350.00 | PayPal |
| 1005T | Gregory Hansen | 2019-03-03 | 2019-03-10 | 100.00 |  |  | 375.00 | Visa |
| 942S | Fran McCoy | 2019-03-17 | 2019-03-24 | 100.00 |  |  | 450.00 | MasterCard |
| 942S | Fran McCoy | 2019-04-07 | 2019-04-14 | 100.00 |  |  | 525.00 | MasterCard |
| 1005T | Harriet O'Casey | 2019-04-07 | 2019-04-17 | 100.00 | 150.00 | dog | 400.00 | Check |
| 1201T | Linda Paloma | 2019-04-14 | 2019-04-21 | 100.00 |  |  | 400.00 | MasterCard |
| 409S | Joan Thomas | 2019-05-05 | 2019-05-19 | 100.00 | 150.00 | cat | 950.00 | AMEX |
| 1100T | Fran McCoy | 2019-05-05 | 2019-05-12 | 100.00 |  |  | 400.00 | MasterCard |
| 317S | David Stocking | 2019-05-05 | 2019-05-19 | 100.00 |  |  | 950.00 | PayPal |
| 942S | Brittany Foxe | 2019-05-05 | 2019-05-12 | 100.00 |  |  | 525.00 | Cash |
| 1201T | Linda Paloma | 2019-05-12 | 2019-05-19 | 100.00 |  |  | 400.00 | MasterCard |
| 1005T | Ted Stiggle | 2019-05-12 | 2019-05-19 | 100.00 |  |  | 400.00 | Visa |
| 656S | John Grainger | 2019-05-19 | 2019-05-26 | 100.00 | 150.00 | dog | 425.00 | Visa |
| 317S | Steve Snider | 2019-06-02 | 2019-06-16 | 100.00 |  |  | 1200.00 | PayPal |
| 942S | Fran McCoy | 2019-06-02 | 2019-06-23 | 100.00 |  |  | 1950.00 | PayPal |
| 1005T | Harriet O'Casey | 2019-06-09 | 2019-06-16 | 100.00 | 150.00 | dog | 500.00 | Check |
| 1201T | Linda Paloma | 2019-06-16 | 2019-06-23 | 100.00 |  |  | 500.00 | MasterCard |
| 1005T | Ted Stiggle | 2020-01-05 | 2020-01-12 | 100.00 |  |  | 375.00 | Check |
| 942S | Fran McCoy | 2020-01-19 | 2020-02-02 | 100.00 |  |  | 900.00 | MasterCard |
| 110T | David Stocking | 2020-02-02 | 2020-02-09 | 100.00 |  |  | 350.00 | PayPal |
| 1005T | Harriet O'Casey | 2020-02-09 | 2020-02-16 | 100.00 | 150.00 | dog | 375.00 | Check |
| 409S | Joan Thomas | 2020-03-02 | 2020-03-23 | 100.00 | 150.00 | cat | 1200.00 | AMEX |