

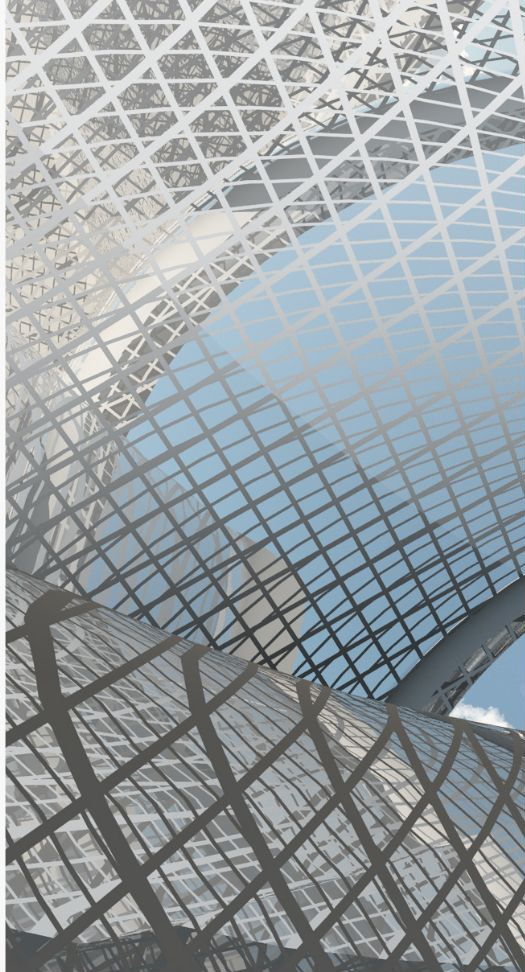
BUILDING SPACE RENTAL

PRESENTATION



ONE CENTER
PROPERTY SOLUTIONS

AYUSH
JAYANT
NOYONIKA
RIDWIK
YOOEUN



CONTENT

REVIEW

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ABOUT US

One Centre Property Solutions owns and provides rented spaces for commercial uses such as Restaurants, offices (private, public), BPO's, shops, cafes, movie theatre, gym, banks and atms etc.



ONE CENTER
PROPERTY SOLUTIONS



OUR TEAM

Meet the Directors, CEO & CFO of the company. They have put their blood and money to make One Centre run successfully.



RIDWIK
MODI
DIRECTOR



NOYONIKA
ROY
DIRECTOR



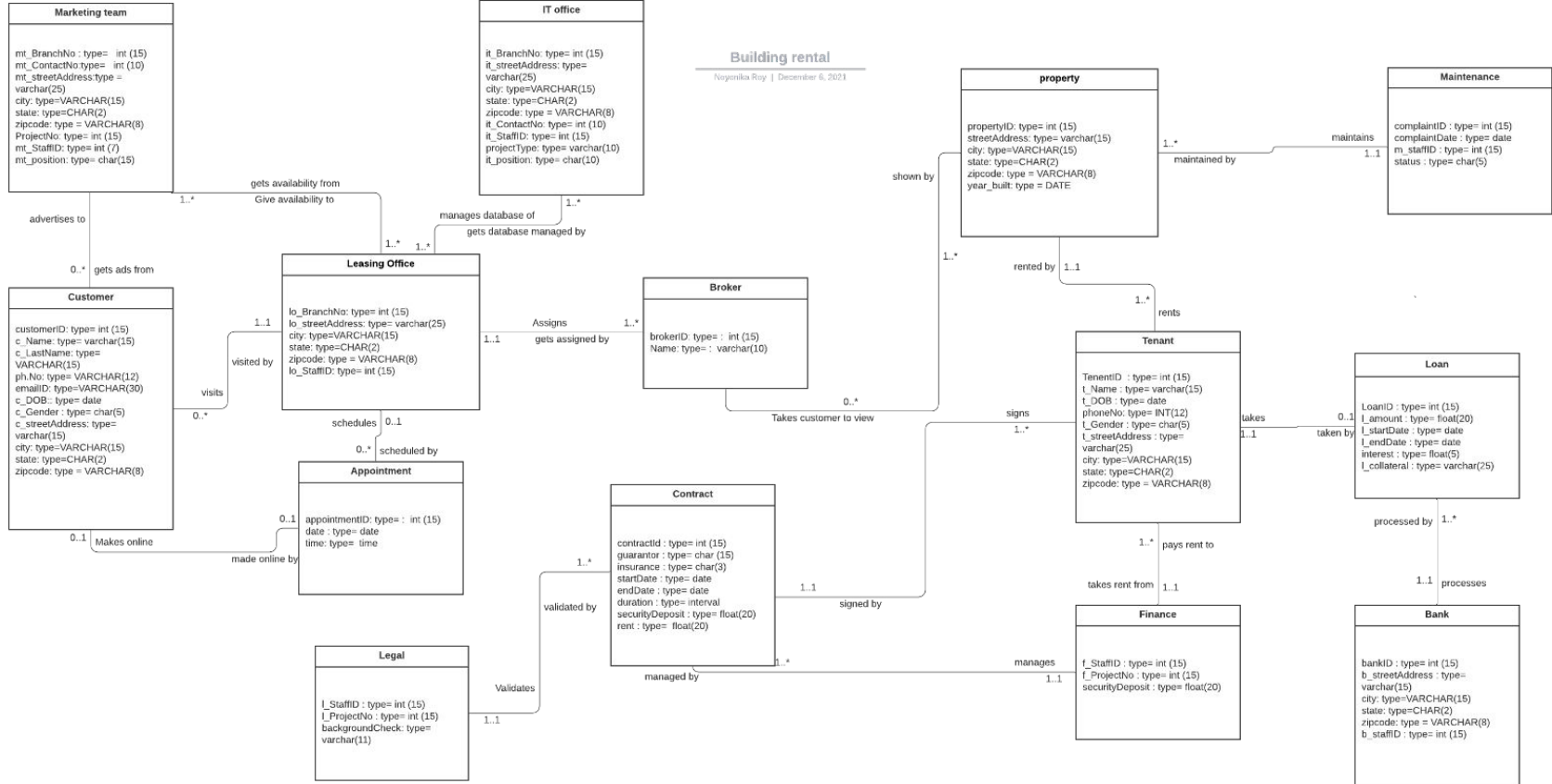
AYUSH
VYAS
CEO



YOOEUN
PARK
CFO



JAYANT
BISHNOI
CHAIRMAN





ONE CENTER
PROPERTY SOLUTIONS

PURPOSE

minimize data redundancy,
organize the data into
multiple related tables

FIRST NORMAL FORM

- single value columns
- same datatype
- Unique name

SECOND NORMAL FORM

- Should already be in 1NF
- No Partial Dependencies

THIRD NORMAL FORM

Requirements:
should be in 2NF
No transitive dependency

NORMALIZATION

FOR MARKETING

IDEAL WAY TO NORMALIZE :
SPLIT THE PARENT TABLE INTO TWO NEW ENTITIES

.....

EXAMPLE OF NORMALIZATION

MARKETING TEAM

| mt_StaffID | mt_position | mt_BranchNo | mt_ContactNo | mt_streetAddress | state | city | zipcode | mt_BranchNo | propertyID |
|------------|----------------------|-------------|--------------|------------------|----------|----------|---------|-------------|------------|
| 1230 | Manager | 123 | 3456789276 | 345 50th street | New York | New York | 10010 | 123 | 456 |
| 1231 | Sales representative | 123 | 3456789276 | 346 50th street | New York | New York | 10010 | 123 | 457 |
| 1232 | Sales representative | 123 | 3456789276 | 347 50th street | New York | New York | 10010 | 123 | 458 |
| 1233 | Sales representative | 123 | 3456789276 | 348 50th street | New York | New York | 10010 | 123 | 459 |
| 1234 | Sales representative | 123 | 3456789276 | 349 50th street | New York | New York | 10010 | 123 | 460 |

Table is in 1NF

- Atomic and Unique values
- Consistent Datatype

Composite Primary Key : mt_BranchNo,
propertyID

Marketing Team

| mt_BranchNo | propertyID | mt_StaffID | mt_position |
|-------------|------------|------------|----------------------|
| 123 | 456 | 1230 | Manager |
| 123 | 457 | 1231 | Sales representative |
| 123 | 458 | 1232 | Sales representative |
| 123 | 459 | 1233 | Sales representative |

Key : mt_BranchNo, PropertyID(fk)

MKT Branch

| mt_BranchNo | mt_ContactNo | mt_streetAddress | state | city | zipcode |
|-------------|--------------|------------------|----------|----------|---------|
| 123 | 3456789276 | 345 50th street | New York | New York | 10010 |
| 123 | 3456789276 | 346 50th street | New York | New York | 10010 |
| 123 | 3456789276 | 347 50th street | New York | New York | 10010 |
| 123 | 3456789276 | 348 50th street | New York | New York | 10010 |

2NF

Key: mt_BranchNo

| mt_StaffID | mt_position |
|------------|----------------------|
| 1230 | Manager |
| 1231 | Sales representative |
| 1232 | Sales representative |
| 1233 | Sales representative |

Key: mt_StaffID

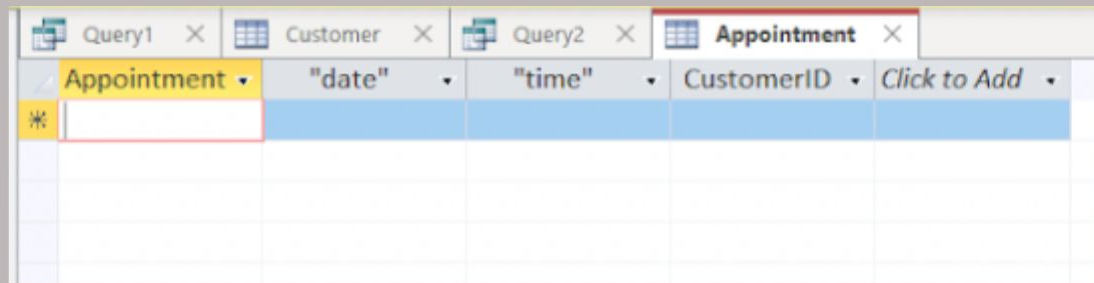
3NF

DATABASE CREATION

IN MS ACCESS

SQL CODE TO CREATE TABLES

```
CREATE TABLE Appointment  
(  
    AppointmentID    VARCHAR(10) NOT NULL,  
    "date" DATE,  
    "time" DATETIME,  
    CustomerID       VARCHAR(10) NOT NULL,  
    CONSTRAINT pk_appointment  
        PRIMARY KEY (AppointmentID)  
)
```



The screenshot shows the Microsoft Access interface with four tabs: Query1, Customer, Query2, and Appointment. The Appointment table is selected, displaying its structure with columns: Appointment (primary key), "date", "time", CustomerID, and a "Click to Add" button. Below the structure, a data entry form is visible with a yellow asterisk icon in the first row, indicating a new record to be added.

| Appointment | "date" | "time" | CustomerID | Click to Add |
|-------------|--------|--------|------------|--------------|
| * | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

SQL CAN BE USED TO CREATE TABLES AND INSERT DATA INTO TABLES HOWEVER,
IN OUR PROJECT WE HAVE IMPORTED A DATASET FROM MS EXCEL

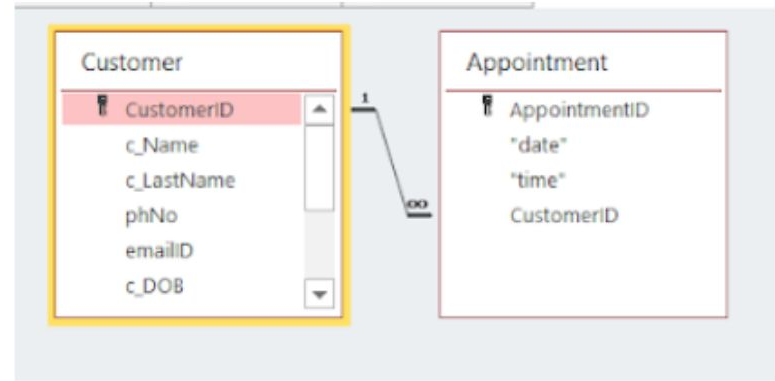
WHAT OUR DATA LOOKS LIKE

AFTER IMPORTING TO ACCESS

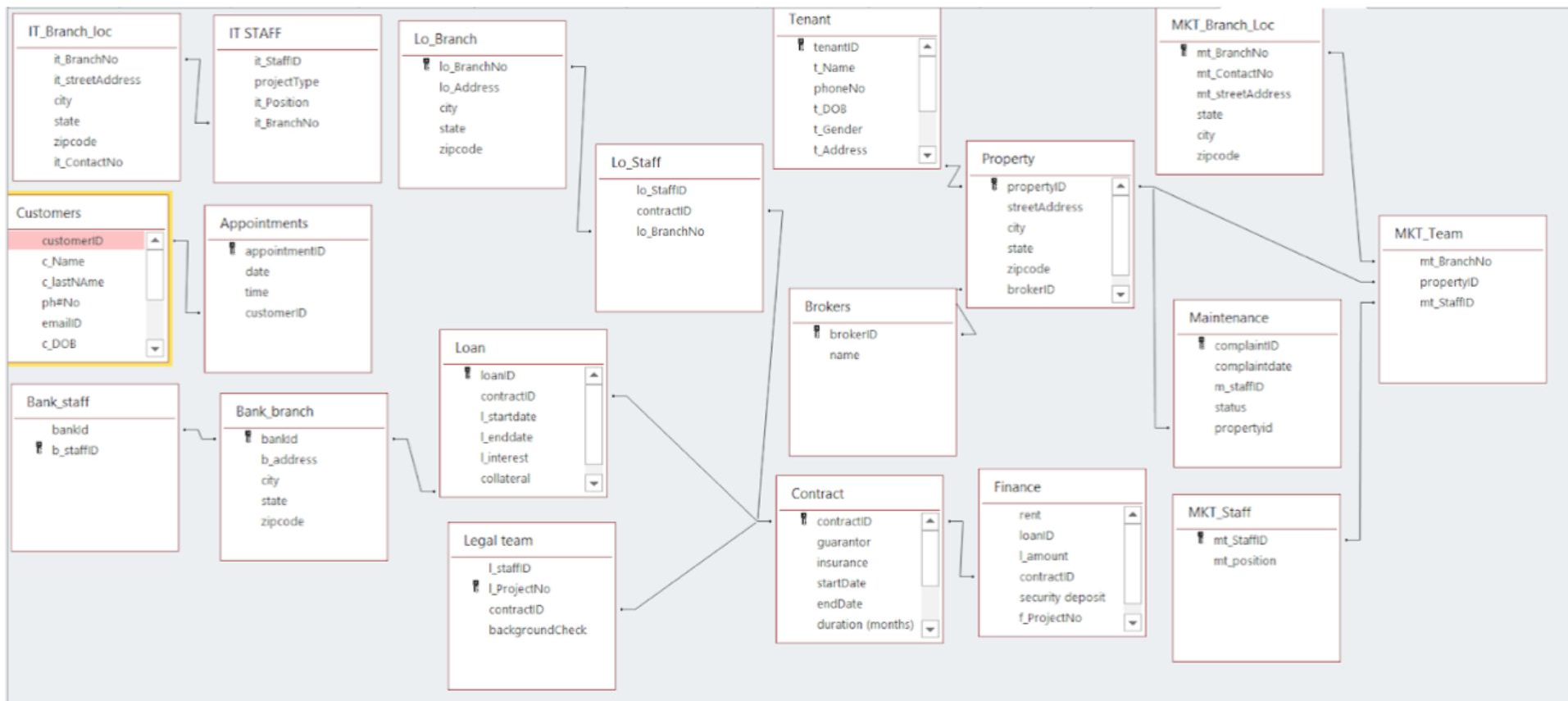
| Search... | customerID | c_Name | c_lastName | phNo | emailID | c_DOB | c_Gender | c_streetAddr | city | state | zipcode | | | |
|------------------|------------|-------------|------------|------------|-----------------|------------|----------|-------------------|------------------|-------|---------|--|--|--|
| Tables | 24001 | Kole | Jimenez | 9747977843 | Kole@gmail.com | 9/13/1964 | F | 334 Fifth Dr. | Brooklyn | NY | 11213 | | | |
| Appointments | 24002 | Lilianna | Pierce | 9426712539 | Lilianna@gmail. | 7/4/1948 | M | 7830 Lilac Court | Meadows | NY | 11365 | | | |
| Bank branch | 24003 | Gina | Chavez | 9668554394 | Gina@gmail.com | 1/3/1988 | F | 8830 Grove Driv | Bronx | NY | 10456 | | | |
| Bank_staff | 24004 | Mckenna | Collier | 9360349686 | Mckenna@gmail | 10/28/1954 | M | 9908 Newbridge | Brooklyn | NY | 10034 | | | |
| Brokers | 24005 | Vanessa | Patel | 9884241483 | Vanessa@gmail | 5/7/1962 | F | 8826 Purple Finc | East Elmhurst | NY | 11370 | | | |
| Contract | 24006 | Sebastian | Marks | 9793208577 | Sebastian@gmail | 5/16/1988 | M | 9694 North You | Spring Valley | NY | 10977 | | | |
| Customers | 24007 | Kayleigh | Houston | 9844772550 | Kayleigh@gmail | 3/21/1942 | M | 8512 NE. Mill Dr | Fairport | NY | 4450 | | | |
| Finance | 24008 | Javier | Gates | 9387573310 | Javier@gmail.co | 10/3/1963 | M | 7329 Bayport Av | Brooklyn | NY | 11230 | | | |
| IT STAFF | 24009 | Allie | Logan | 9757571418 | Allie@gmail.com | 2/15/1972 | F | 673 Longfellow | New York | NY | 10033 | | | |
| IT_Branch_Loc | 24010 | Jaxson | Porter | 9168646988 | Jaxson@gmail.c | 9/22/1997 | M | 9407 Beach Ave | Brooklyn | NY | 11207 | | | |
| Legal team | 24011 | Ahung | Choi | 9044185078 | Ahung@gmail.co | 9/29/1975 | F | 555 Amber road | Long Island City | NY | 11009 | | | |
| Lo_Branch | 24012 | Allessandra | Slovensky | 9397171597 | Allessandra@gm | 5/16/1965 | F | 71 riverside driv | New York | NY | 10027 | | | |
| Lo_Staff | 24013 | Preeti | Chauhan | 9702244723 | Preeti@gmail.co | 4/23/1982 | F | 8888 pickering s | Brooklyn | NY | 13008 | | | |
| Loan | 24014 | Sylvia | Mathews | 9198302009 | Sylvia@gmail.co | 4/5/1971 | F | 898 Walters roa | Queens | NY | 11008 | | | |
| Maintenance | 24015 | Peter | Mallark | 9656335964 | Peter@gmail.co | 6/11/1994 | M | 9090 Semfrod S | New York | NY | 110019 | | | |
| MKT_Branch_Loc | 24016 | Aria | Stark | 9369563856 | Aria@gmail.com | 5/31/1986 | F | 30 Newport Par | Jersey City | NJ | 7310 | | | |
| MKT_Staff | 24017 | Jeevansh | Jotish | 9103074554 | Jeevansh@gmail | 9/15/1956 | M | 20 River drive Se | Jersey City | NJ | 7310 | | | |
| MKT_Team | 24018 | Terry | Crews | 9538530763 | Terry@gmail.co | 10/14/1979 | M | 565 Grove Stree | Jersey City | NJ | 7311 | | | |
| Property | 24019 | Alba | Kronks | 9811033107 | Alba@gmail.com | 3/5/1998 | F | 456 Turnpike | Edison | NJ | 17890 | | | |
| Tenant | 24020 | Sylvester | Troy | 9688075074 | Sylvester@gmail | 8/9/1998 | M | 566 Pleet Street | Wycoff | NJ | 17556 | | | |
| Appointment form | 24021 | Winona | Mattox | 9299872067 | Winona@gmail. | 12/19/1998 | M | 421 W. Bay Dr | San Antonio | TX | 78245 | | | |
| Contract form | 24022 | Jaqueline | Akers | 9341548559 | Jaqueline@gmail | 9/17/1951 | F | 94 North Frankl | Arlington | TX | 76014 | | | |
| Loan form | 24023 | Daria | Randle | 9602618465 | Daria@gmail.co | 12/29/1995 | F | 972 Ann Drive | Houston | TX | 77008 | | | |
| Navigation Form | 24024 | Rosalva | Bertram | 9859693847 | Rosalva@gmail. | 5/29/1978 | F | 10 Carriage Stre | Plano | TX | 75025 | | | |
| | 24025 | Robbyn | Vu | 9651637635 | Robbyn@gmail. | 8/14/1979 | M | 1 Alderwood Dr | Baytown | TX | 77520 | | | |
| | 24026 | William | Hawk | 9465484659 | William@gmail. | 1/14/1962 | M | 864 Littleton St | Mission | TX | 78572 | | | |
| | 24027 | Randy | Danner | 9243873016 | Randy@gmail.co | 2/3/1976 | M | 9158 Dogwood | Anaheim | CA | 92804 | | | |
| | 24028 | Keren | Sandlin | 9284299923 | Keren@gmail.co | 1/23/1972 | F | 56 River Court | Chula Vista | CA | 91911 | | | |
| | 24029 | Elenor | Hidalgo | 9436649827 | Elenor@gmail.c | 7/28/1982 | F | 8502 Pheasant C | La Puente | CA | 91744 | | | |
| | 24030 | Pa | Worth | 9798766989 | Pa@gmail.com | 7/19/1984 | M | 79 Griffin St | Oxnard | CA | 93033 | | | |

FOREIGN KEYS ASSIGNMENT USING SQL

```
ALTER TABLE Appointment  
ADD CONSTRAINT fk_customer_appointment  
FOREIGN KEY (CustomerID)  
REFERENCES Customer (CustomerID)
```



- FOREIGN KEYS LINK THE PARENT ENTITY TO THE CHILD ENTITY
- ALLOW JOINS TO OCCUR
- REDUCES THE STORAGE REQUIREMENTS AND EFFICIENTLY LINKS DATA





DATABASE SYSTEM FUNCTIONALITY

- QUERIES
 - DATA DEFINITION
 - DATA MANIPULATION
 - DATA RETRIEVAL
- FORMS
 - NAVIGATION FORM
 - TO UPDATE RECORDS
 - TO VIEW RECORDS
- REPORTS
 - SUMMARY OF DATA
 - USEFUL INSIGHTS
 - VISUAL DATA

QUERIES

SQL VIEW

```
SELECT Lo_Branch.lo_BranchNo, Lo_Staff.lo_StaffID
FROM Lo_Branch INNER JOIN Lo_Staff
ON Lo_Branch.lo_BranchNo=Lo_Staff.lo_BranchNo;
```



| lo_BranchNo | lo_StaffID |
|-------------|------------|
| 8543 | 281919 |
| 8602 | 283866 |
| 8543 | 281920 |
| 8602 | 281921 |
| 8543 | 281922 |
| 8602 | 281923 |
| 8543 | 281924 |

```
UPDATE Customers
SET c_Name = "Cami", c_Gender = "F"
WHERE customerID=24001;
```



| customerID | c_Name | c_lastName | ph#No | emailID | c_DOB | c_Gender |
|------------|--------|------------|------------|----------------|-----------|----------|
| 24001 | Cami | Jimenez | 9747977843 | Kole@gmail.com | 9/13/1964 | F |

```
SELECT mt_BranchNo
FROM MKT_Branch_Loc
WHERE city='New York';
```



| mt_BranchNo |
|-------------|
| 123 |
| 133 |
| * |

DESIGN VIEW

| Field: | I_interest | loanID | contractID | collateral |
|-----------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| Table: | Loan | Loan | Loan | Loan |
| Sort: | | | | |
| Show: | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| Criteria: | "I_interest">"4" | | | |
| or: | | | | |



| I_interest | loanID | contractID | collateral |
|------------|----------------|------------|------------|
| 5 | 2030405 OJ4714 | | recieved |
| 5 | 2030406 KO7010 | | recieved |
| 6 | 2030407 WH2020 | | recieved |
| 4 | 2030409 CL5218 | | recieved |
| 5 | 2030410 VF6131 | | recieved |
| 4 | 2030416 NX3722 | | recieved |
| 7 | 2030418 DY5079 | | recieved |
| 7 | 2030420 RT5208 | | recieved |
| 7 | 2030421 LG3713 | | recieved |

FORMS

- EASY INTERFACE TO ENTER NEW RECORDS, SAVE CHANGES, AND VIEW RECORDS
- THE NAVIGATION FORM: TOGGLE BETWEEN FORMS
- BUTTONS CAN HELP JUMP FROM ONE FORM TO ANOTHER

One Center Main Menu

Appointment Form
New Customer Form
Loan form
Tenant form
Contract form

NEW CUSTOMER FORM

ONE CENTER
PROPERTY SOLUTIONS

First Name
Last Name
emailID
PH.No.
Gender
Street Address
City
State
Zipcode
CustomerID

Next Record
Save Record
Add Record
Close Form
Make an appointment online

Appointment form

date
time
appointmentID

Save Record Add Record Close Form

Property Sheet

Selection type: Form

Form

| Format | Data | Event | Other | All |
|--------------------------|--------------|-------|-------|-----|
| Record Source | Appointments | | | |
| Recordset Type | Dynaset | | | |
| Fetch Defaults | Yes | | | |
| Filter | | | | |
| Filter On Load | No | | | |
| Order By | | | | |
| Order By On Load | Yes | | | |
| Wait for Post Processing | No | | | |
| Data Entry | No | | | |
| Allow Additions | Yes | | | |
| Allow Deletions | Yes | | | |
| Allow Edits | Yes | | | |
| Allow Filters | Yes | | | |
| Record Locks | No Locks | | | |

REPORTS

GROUP
RECORDS
TOGETHER

Properties

city Bronx
propertyID streetAddress

No. of Properties

6

478 1 Rock Creek St

481 835 10th St

482 166B East Williams Lane

490 30 Devon Ave

495 64 Park Road

505 688 Trout Street

city Brooklyn
propertyID streetAddress

No. of Properties

9

477 893 Marvon Court

486 624 Wild Horse Road

491 91 School Lane

492 442 Lower River Court

497 737 2nd Rd

499 8826 Sunnyslope Lane

501 188 Prospect Lane

Contracts summary

Total number of contracts

Avg security Deposit

Avg monthly rent

50

10506.96

\$ 7,004.64

Sunday, December 5, 2021

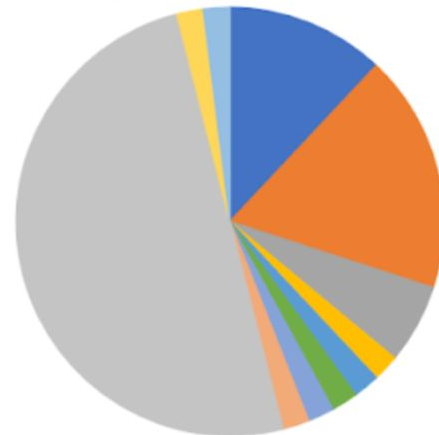
TIMESTAMP

COUNT
RECORDS

AVERAGE
RECORDS

Properties grouped by city

■ Bronx
■ Brooklyn
■ Buffalo
■ Fairport
■ Flushing
■ Ithaca
■ Jackson Heights
■ Massapequa
■ New York
■ Richester
■ Westbury





THANK YOU

FOR WATCHING

