Phase II: Physical Database and Application Prototype for 3F Properties – User's Manual

by: None of Your Business Analytics

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SQL for Back End Database

CREATES

```
CREATE TABLE Property (
FolioNo VARCHAR(16) NOT NULL UNIQUE,
Street VARCHAR(25) NOT NULL,
City VARCHAR(25) NOT NULL,
ZipCode CHAR(5) NOT NULL,
State CHAR(2) NOT NULL,
CurrentType VARCHAR(4),
PropType_Sold TINYINT NOT NULL,
PropType_Vac TINYINT NOT NULL,
PropType_WIP TINYINT NOT NULL,
PropType_Rent TINYINT NOT NULL,
PropType_Pot TINYINT NOT NULL,
CONSTRAINT Property_PK PRIMARY KEY (FolioNo));

CREATE TABLE BusinessContact(
ContractorID INT NOT NULL UNIQUE IDENTITY(1,1),
FName VARCHAR(15) NOT NULL,
LName VARCHAR(15) NOT NULL,
Phone CHAR(10) NOT NULL,
Street VARCHAR(25) NOT NULL,
City VARCHAR(25) NOT NULL,
ZipCode CHAR(5) NOT NULL,
State CHAR(2) NOT NULL,
OfficePhone CHAR(10),
GeoArea CHAR(2),
CommisionStructure DECIMAL(2,2),
CONSTRAINT BusinessContact_PK PRIMARY KEY (ContractorID));

CREATE TABLE WIP_Property(
FolioNumWIP VARCHAR(16) NOT NULL UNIQUE,
DatePurchased DATE NOT NULL,
PurchasePrice MONEY NOT NULL,
RehabAmt MONEY NOT NULL,
CompletedImprov TINYINT NOT NULL,
CONSTRAINT WIP_PK PRIMARY KEY (FolioNumWIP));

CREATE TABLE Sold_Property(
```

```
FolioNumSold VARCHAR(16) NOT NULL UNIQUE,
PurchaseDate DATE NOT NULL,
PurchasePrice MONEY NOT NULL,
TotalImprovCost MONEY NOT NULL,
SellingPrice MONEY NOT NULL,
NetProfit MONEY NOT NULL,
PriorRental TINYINT,
SellingAgent VARCHAR(25),
ClosingCost MONEY,
CONSTRAINT Sold_PK PRIMARY KEY (FolioNumSold));

CREATE TABLE Vac_Property(
FolioNumVac VARCHAR(16) NOT NULL UNIQUE,
DateBought DATE NOT NULL,
TaxesPerYear MONEY NOT NULL,
LandSize INT NOT NULL,
PurchasePrice MONEY NOT NULL,
SellingPrice MONEY,
CONSTRAINT Vac_PK PRIMARY KEY (FolioNumVac));

CREATE TABLE Owner(
OwnerID INT NOT NULL UNIQUE IDENTITY(1,1),
FName CHAR(15) NOT NULL,
LName CHAR(15) NOT NULL,
Phone CHAR(10) NOT NULL,
Street CHAR(50) NOT NULL,
CITY CHAR(50) NOT NULL,
ZipCode CHAR(5) NOT NULL,
State CHAR(2) NOT NULL,
CONSTRAINT Owner_PK PRIMARY KEY (OwnerID));

CREATE TABLE PotentialProperty(
FolioNumPot VARCHAR(16) NOT NULL UNIQUE,
BathNum INT NOT NULL,
BedNum INT NOT NULL,
Sq_Footage INT NOT NULL,
Frame_Type_Wood TINYINT,
Frame_Type_Concrete TINYINT,
LotSize INT,
How_Identified VARCHAR(150),
ExitStrategy VARCHAR(150),
AskingPrice MONEY,
OfferPrice MONEY,
AcceptedOffer TINYINT,
```

```
ValueAfterRepairs MONEY,
TypeDuplex TINYINT,
TypeHouse TINYINT,
Condition VARCHAR(20),
OwnerID INT NOT NULL,
CONSTRAINT PotentialProperty_PK PRIMARY KEY (FolioNumPot),
CONSTRAINT PotentialProperty_FK FOREIGN KEY (OwnerID)
REFERENCES Owner(OwnerID) ON UPDATE CASCADE ON DELETE NO ACTION);

CREATE TABLE PropViolation(
PropViolationID INT NOT NULL UNIQUE IDENTITY(1,1),
Descr VARCHAR(100) NOT NULL,
FolioNumPotential VARCHAR(16) NOT NULL
CONSTRAINT PropViolation_PK PRIMARY KEY (PropViolationID),
CONSTRAINT PropViolation_FK FOREIGN KEY (FolioNumPotential)
REFERENCES PotentialProperty(FolioNumPot) ON UPDATE CASCADE ON DELETE NO ACTION);

CREATE TABLE Contract(
ContractID INT NOT NULL UNIQUE IDENTITY(1,1),
FolioNum VARCHAR(16) NOT NULL,
ContractorID INT NOT NULL,
CONSTRAINT Contract_PK PRIMARY KEY (ContractID));

CREATE TABLE RentalProperty(
FolioNumRent VARCHAR(16) NOT NULL UNIQUE,
DepositAmt MONEY NOT NULL,
MonthlyRent MONEY NOT NULL,
GovSubsidized TINYINT NOT NULL,
AmtSubsidized MONEY,
CONSTRAINT RentalProperty_PK PRIMARY KEY (FolioNumRent));

CREATE TABLE Tenant(
TenantID INT NOT NULL UNIQUE IDENTITY(1,1),
FName VARCHAR(15) NOT NULL,
LName VARCHAR(15) NOT NULL,
Phone CHAR(10) NOT NULL,
CONSTRAINT Tenant_PK PRIMARY KEY (TenantID));

CREATE TABLE LateFeeHistory(
LateFeeID  INT NOT NULL UNIQUE IDENTITY(1,1),
LateFeeAmt MONEY NOT NULL,
LateFeeIncurr MONEY NOT NULL,
LateFeeDate DATE NOT NULL,
CONSTRAINT LateFee_PK PRIMARY KEY (LateFeeID));
```

```
CREATE TABLE Lender(
LenderID INT NOT NULL UNIQUE IDENTITY(1,1),
FName VARCHAR(15) NOT NULL,
LName VARCHAR(15) NOT NULL,
Phone CHAR(10) NOT NULL,
Street VARCHAR(50) NOT NULL,
City VARCHAR(40) NOT NULL,
ZipCode CHAR(5) NOT NULL,
State CHAR(2) NOT NULL,
ProgramType VARCHAR(30),
ContactName VARCHAR(30) NOT NULL,
CONSTRAINT Lender_PK PRIMARY KEY (LenderID));

CREATE TABLE RepairEscrowAccount(
AcctNum INT NOT NULL UNIQUE IDENTITY(1,1),
InitialAccountBalance MONEY NOT NULL,
CONSTRAINT RepairEscrowAccount_PK PRIMARY KEY (AcctNum));

CREATE TABLE Supplier(
SupplierID INT UNIQUE NOT NULL IDENTITY(1,1),
Name VARCHAR(50) NOT NULL,
Street VARCHAR(50) NOT NULL,
City VARCHAR(40) NOT NULL,
State CHAR(2) NOT NULL,
ZipCode CHAR(5) NOT NULL,
Phone CHAR(10) NOT NULL,
Discount INT,
Type VARCHAR(15),
ContactName VARCHAR(40) NOT NULL,
CONSTRAINT Supplier_PK PRIMARY KEY (SupplierID));

CREATE TABLE Subcontractor(
SubcontractorID INT UNIQUE NOT NULL IDENTITY(1,1),
FName VARCHAR(15) NOT NULL,
LName VARCHAR(15) NOT NULL,
City VARCHAR(40) NOT NULL,
Street VARCHAR(50) NOT NULL,
ZipCode CHAR(5) NOT NULL,
State CHAR(2) NOT NULL,
Phone CHAR(10) NOT NULL,
HourlyRate MONEY,
CONSTRAINT Subcontractor_PK PRIMARY KEY (SubcontractorID));
```

```
CREATE TABLE Item(
ItemID INT NOT NULL UNIQUE IDENTITY(1,1),
Description VARCHAR(200) NOT NULL,
UnitCost MONEY NOT NULL,
CONSTRAINT Item_PK PRIMARY KEY (ItemID));

CREATE TABLE Tool(
ToolID INT NOT NULL UNIQUE IDENTITY(1,1),
Descr VARCHAR(50) NOT NULL,
SubcontractorID INT NOT NULL,
CONSTRAINT Tool_PK PRIMARY KEY (ToolID),
CONSTRAINT Tool_FK FOREIGN KEY (SubcontractorID)
REFERENCES Subcontractor(SubcontractorID) ON UPDATE CASCADE ON DELETE NO ACTION);

CREATE TABLE Skill(
SkillID INT NOT NULL UNIQUE IDENTITY(1,1),
Descr VARCHAR(150) NOT NULL,
SubcontractorID INT NOT NULL,
CONSTRAINT Skill_PK PRIMARY KEY (SkillID),
CONSTRAINT Skill_FK FOREIGN KEY (SubcontractorID)
REFERENCES Subcontractor(SubcontractorID) ON UPDATE CASCADE ON DELETE NO ACTION);

CREATE TABLE Draw(
DrawID INT NOT NULL UNIQUE IDENTITY(1,1),
DrawAmt MONEY NOT NULL,
DrawDate DATE NOT NULL,
DrawItem VARCHAR(50) NOT NULL,
Description VARCHAR(150) NOT NULL,
FeeIncurred TINYINT NOT NULL,
SubcontractorID INT NOT NULL,
AcctNum INT NOT NULL,
CONSTRAINT Draw_PK PRIMARY KEY (DrawID),
CONSTRAINT Draw_FK1 FOREIGN KEY (SubcontractorID)
REFERENCES Subcontractor(SubcontractorID) ON UPDATE CASCADE ON DELETE NO ACTION,
CONSTRAINT Draw_FK2 FOREIGN KEY (AcctNum)
REFERENCES RepairEscrowAccount(AcctNum) ON UPDATE CASCADE ON DELETE NO ACTION);

CREATE TABLE Orderline(
OrderlineID INT NOT NULL UNIQUE IDENTITY(1,1),
OrderID INT NOT NULL,
QtyPurch INT NOT NULL,
PurchDate DATE NOT NULL,
SupplierID INT NOT NULL,
ItemID INT NOT NULL,
```

```
CONSTRAINT Order_PK PRIMARY KEY (OrderlineID),
CONSTRAINT Order_FK1 FOREIGN KEY (SupplierID)
REFERENCES Supplier(SupplierID) ON UPDATE CASCADE ON DELETE NO ACTION,
CONSTRAINT Order_FK2 FOREIGN KEY (ItemID)
REFERENCES Item(ItemID) ON UPDATE CASCADE ON DELETE NO ACTION);

CREATE TABLE Lease(
LeaseID INT NOT NULL UNIQUE IDENTITY(1,1),
LeaseStart DATE NOT NULL,
LeaseEnd DATE NOT NULL,
FolioNumRent VARCHAR(16) NOT NULL UNIQUE,
TenantID INT NOT NULL UNIQUE,
LateFeeID INT NOT NULL UNIQUE,
CONSTRAINT Lease_PK PRIMARY KEY (LeaseID),
CONSTRAINT Lease_FK1 FOREIGN KEY (FolioNumRent)
REFERENCES RentalProperty(FolioNumRent) ON UPDATE CASCADE ON DELETE NO ACTION,
CONSTRAINT Lease_FK2 FOREIGN KEY (TenantID)
REFERENCES Tenant(TenantID) ON UPDATE CASCADE ON DELETE NO ACTION,
CONSTRAINT Lease_FK3 FOREIGN KEY (LateFeeID)
REFERENCES LateFeeHistory(LateFeeID) ON UPDATE CASCADE ON DELETE NO ACTION);

CREATE TABLE Loan(
LoanNumber INT NOT NULL UNIQUE IDENTITY(1,1),
ClosingCosts MONEY,
TotalLoanAmt MONEY NOT NULL,
DateIssued DATE NOT NULL,
LoanLength INT NOT NULL,
RepaymentDate DATE NOT NULL,
InterestRate INT NOT NULL,
OrginPoint MONEY,
MonthlyMortgagePMT MONEY,
MortgageFees MONEY,
MortgageTaxes MONEY,
TotalMonthlyMortgage MONEY NOT NULL,
DateGiven DATE NOT NULL,
PropType VARCHAR(10),
FolioNum VARCHAR(16) NOT NULL,
LenderID INT NOT NULL,
CONSTRAINT Loan_PK PRIMARY KEY (LoanNumber),
CONSTRAINT Loan_FK1 FOREIGN KEY (FolioNum)
REFERENCES Property(FolioNo) ON UPDATE CASCADE ON DELETE NO ACTION,
CONSTRAINT Loan_FK2 FOREIGN KEY (LenderID)
REFERENCES Lender(LenderID) ON UPDATE CASCADE ON DELETE NO ACTION);
```

```
CREATE TABLE Repair(
RepairID INT NOT NULL UNIQUE IDENTITY(1,1),
AllottedMoney MONEY NOT NULL,
ActualRepairCost MONEY NOT NULL,
ActualLaborCost MONEY NOT NULL,
TotalMaterialCost MONEY NOT NULL,
Date DATE NOT NULL,
Description VARCHAR(150),
WarrantyWork TINYINT NOT NULL,
ContactPerson VARCHAR(50) NOT NULL,
DaysWorked  INT NOT NULL,
HourlyWage MONEY NOT NULL,
BonusAmount MONEY,
HoursWorked INT,
SubcontractorID INT NOT NULL,
AcctNum INT NOT NULL,
OrderlineID INT NOT NULL,
FolioNum VARCHAR(16) NOT NULL,
CONSTRAINT Repair_PK PRIMARY KEY (RepairID),
CONSTRAINT Repair_FK1 FOREIGN KEY (SubcontractorID)
REFERENCES Subcontractor(SubcontractorID) ON UPDATE CASCADE ON DELETE NO ACTION,
CONSTRAINT Repair_FK2 FOREIGN KEY (FolioNum)
REFERENCES Property(FolioNo) ON UPDATE CASCADE ON DELETE NO ACTION,
CONSTRAINT Repair_FK3 FOREIGN KEY (AcctNum)
REFERENCES RepairEscrowAccount(AcctNum) ON UPDATE CASCADE ON DELETE NO ACTION,
CONSTRAINT Repair_FK4 FOREIGN KEY (OrderlineID)
REFERENCES Orderline(OrderlineID) ON UPDATE CASCADE ON DELETE NO ACTION);

CREATE TABLE  Permit (
PermitID INT NOT NULL UNIQUE IDENTITY(1,1),
Cost MONEY NOT NULL,
RepairID INT NOT NULL UNIQUE,
CONSTRAINT Permit_PK PRIMARY KEY (PermitID),
CONSTRAINT Permit_FK FOREIGN KEY (RepairID)
REFERENCES Repair(RepairID) ON UPDATE CASCADE ON DELETE NO ACTION);
```

INDEXES

```
CREATE INDEX idx_OwnerID
ON Owner (OwnerID);

CREATE INDEX idx_OwnerLName
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ON Owner (LName);

CREATE INDEX idx_OwnerPhone
ON Owner (Phone);

CREATE INDEX idx_FolioNumPot
ON PotentialProperty (FolioNumPot);

CREATE INDEX idx_AcceptedOffer
ON PotentialProperty (AcceptedOffer);

CREATE INDEX idx_SupplierID
ON Supplier (SupplierID);

CREATE INDEX idx_SupplierPhone
ON Supplier (Phone);

CREATE INDEX idx_SupplierDiscount
ON Supplier (Discount);

CREATE INDEX idx_SupplierType
ON Supplier (Type);

CREATE INDEX idx_SupplierContactName
ON Supplier (ContactName);

CREATE INDEX idx_ItemID
ON Item (ItemID);

CREATE INDEX idx_ItemUnitCost
ON Item (UnitCost);

CREATE INDEX idx_OrderLineID
ON OrderLine (OrderLineID);

CREATE INDEX idx_QtyPurch
ON OrderLine (QtyPurch);

CREATE INDEX idx_PurchDate
ON OrderLine (PurchDate);

CREATE INDEX idx_SubcontractorID
ON Subcontractor (SubcontractorID);
```

```
CREATE INDEX idx_SubncontractorLName
ON Subcontractor (LName);

CREATE INDEX idx_SubcontractorPhone
ON Subcontractor (Phone);

CREATE INDEX idx_SubcontractorHourlyRate
ON Subcontractor (HourlyRate);

CREATE INDEX idx_AcctNum
ON RepairEscrowAccount (AcctNum);

CREATE INDEX idx_InitialAcctBalance
ON RepairEscrowAccount (InitialAccountBalance);

CREATE INDEX idx_DrawID
ON Draw (DrawID);

CREATE INDEX idx_DrawAmt
ON Draw (DrawAmt);

CREATE INDEX idx_DrawDate
ON Draw (DrawDate);

CREATE INDEX idx_SkillID
ON Skill (SkillID);

CREATE INDEX idx_ToolID
ON Tool (ToolID);

CREATE INDEX idx_RepairID
ON Repair (RepairID);

CREATE INDEX idx_AllottedMoney
ON Repair (AllottedMoney);

CREATE INDEX idx_ActualRepairCost
ON Repair (ActualRepairCost);

CREATE INDEX idx_ActualLaborCost
ON Repair (ActualLaborCost);

CREATE INDEX idx_TotalMaterialCost
ON Repair (TotalMaterialCost);
```

```
CREATE INDEX idx_RepairDate
ON Repair (Date);

CREATE INDEX idx_RepairContact
ON Repair (ContactPerson);

CREATE INDEX idx_DaysWorked
ON Repair (DaysWorked);

CREATE INDEX idx_RepairHourlyWage
ON Repair (HourlyWage);

CREATE INDEX idx_Bonus
ON Repair (BonusAmount);

CREATE INDEX idx_RepairHoursWorked
ON Repair (HoursWorked);

CREATE INDEX idx_PermitID
ON Permit (PermitID);

CREATE INDEX idx_PermitCost
ON Permit (Cost);

CREATE INDEX idx_FolioNum
ON Property (FolioNo);

CREATE INDEX idx_ContractID
ON Contract (ContractID);

CREATE INDEX idx_ContractorID
ON BusinessContact (ContractorID);

CREATE INDEX idx_FolioNumSold
ON Sold_Property (FolioNumSold);

CREATE INDEX idx_FolioNumVac
On Vac_Property (FolioNumVac);

CREATE INDEX idx_FolioNumWIP
ON WIP_Property (FolioNumWIP);

CREATE INDEX idx_FolioNumRent
```

```
ON RentalProperty (FolioNumRent);

CREATE INDEX idx_TenantID
ON Tenant (TenantID);

CREATE INDEX idx_LateFeeID
ON LateFeeHistory (LateFeeID);

CREATE INDEX idx_LeaseID
ON Lease (LeaseID);

CREATE INDEX idx_LenderID
ON Lender (LenderID);

CREATE INDEX idx_PropViolationID
ON PropViolation (PropViolationID);

CREATE INDEX idx_LoanNumber
ON Loan (LoanNumber);
```

INSERTS

```
INSERT INTO Property VALUES (10001,'Krabby Way',14322,'HI','Sold',1,0,0,0,0);
INSERT INTO Property VALUES (10002,'Pineapple Lane',12345,'HI','Sold',1,0,0,0,0);
INSERT INTO Property VALUES (10003,'Jelly Fish Fields',96705,'HI','Sold',1,0,0,0,0);
INSERT INTO Property VALUES (10004,'Krabby Way',14322,'HI','Sold',1,0,0,0,0);
INSERT INTO Property VALUES (10005,'Coral Avenue ',14336,'HI','Sold',1,0,0,0,0);
INSERT INTO Property VALUES (10006,'Flyer Drive',96710,'HI','Sold',1,0,0,0,0);
INSERT INTO Property VALUES (10007,'Coral Avenue ',14336,'HI','Sold',1,0,0,0,0);
INSERT INTO Property VALUES (10008,'Chum Lane',12346,'HI','Sold',1,0,0,0,0);
INSERT INTO Property VALUES (10009,'Coral Avenue ',14336,'HI','Sold',1,0,0,0,0);
INSERT INTO Property VALUES (10010,'Shell Street',96705,'HI','Sold',1,0,0,0,0);
INSERT INTO Property VALUES (10011,'Jelly Fish Fields',96705,'HI','WIP',0,0,1,0,0);
INSERT INTO Property VALUES (10012,'Jelly Fish Fields',96705,'HI','WIP',0,0,1,0,0);
INSERT INTO Property VALUES (10013,'Chum Lane',12346,'HI','WIP',0,0,1,0,0);
INSERT INTO Property VALUES (10014,'Shell Street',96705,'HI','WIP',0,0,1,0,0);
INSERT INTO Property VALUES (10015,'Krabby Way',14322,'HI','WIP',0,0,1,0,0);
INSERT INTO Property VALUES (10016,'Hook Street',14331,'HI','WIP',0,0,1,0,0);
INSERT INTO Property VALUES (10017,'Chum Lane',12346,'HI','WIP',0,0,1,0,0);
INSERT INTO Property VALUES (10018,'Hook Street',14331,'HI','WIP',0,0,1,0,0);
INSERT INTO Property VALUES (10019,'Jelly Fish Fields',96705,'HI','WIP',0,0,1,0,0);
INSERT INTO Property VALUES (10020,'Coral Avenue ',14336,'HI','WIP',0,0,1,0,0);
INSERT INTO Property VALUES (10021,'Kelp Lane',40654,'HI','Vac',0,1,0,0,0);
```

```
INSERT INTO Property VALUES (10022,'Jelly Fish Fields',96705,'HI','Vac',0,1,0,0,0);
INSERT INTO Property VALUES (10023,'Hook Street',14331,'HI','Vac',0,1,0,0,0);
INSERT INTO Property VALUES (10024,'Flyer Drive',96710,'HI','Vac',0,1,0,0,0);
INSERT INTO Property VALUES (10025,'Flyer Drive',96710,'HI','Vac',0,1,0,0,0);
INSERT INTO Property VALUES (10026,'Suntan Beach',96706,'HI','Vac',0,1,0,0,0);
INSERT INTO Property VALUES (10027,'Chum Lane',12346,'HI','Vac',0,1,0,0,0);
INSERT INTO Property VALUES (10028,'Shell Street',96705,'HI','Vac',0,1,0,0,0);
INSERT INTO Property VALUES (10029,'Suntan Beach',96706,'HI','Vac',0,1,0,0,0);
INSERT INTO Property VALUES (10030,'Shell Street',96705,'HI','Vac',0,1,0,0,0);
INSERT INTO Property VALUES (10031,'High Rise Boulevard',40871,'HI','Rent',0,0,0,1,0);
INSERT INTO Property VALUES (10032,'High Rise Boulevard',40871,'HI','Rent',0,0,0,1,0);
INSERT INTO Property VALUES (10033,'Krabby Way ',14322,'HI','Rent',0,0,0,1,0);
INSERT INTO Property VALUES (10034,'Conch Street',40718,'HI','Rent',0,0,0,1,0);
INSERT INTO Property VALUES (10035,'High Rise Boulevard',40871,'HI','Rent',0,0,0,1,0);
INSERT INTO Property VALUES (10036,'Conch Street',40718,'HI','Rent',0,0,0,1,0);
INSERT INTO Property VALUES (10037,'Kelp Lane',40654,'HI','Rent',0,0,0,1,0);
INSERT INTO Property VALUES (10038,'Krabby Way ',14322,'HI','Rent',0,0,0,1,0);
INSERT INTO Property VALUES (10039,'Kelp Lane',40654,'HI','Rent',0,0,0,1,0);
INSERT INTO Property VALUES (10040,'High Rise Boulevard',40871,'HI','Rent',0,0,0,1,0);
INSERT INTO Property VALUES (10041,'Pineapple Lane',12345,'HI','Pot',0,0,0,0,1);
INSERT INTO Property VALUES (10042,'Pineapple Lane',12345,'HI','Pot',0,0,0,0,1);
INSERT INTO Property VALUES (10043,'Chum Lane',12346,'HI','Pot',0,0,0,0,1);
INSERT INTO Property VALUES (10044,'Pineapple Lane',12345,'HI','Pot',0,0,0,0,1);
INSERT INTO Property VALUES (10045,'Driving Street',12346,'HI','Pot',0,0,0,0,1);
INSERT INTO Property VALUES (10046,'Anchor Way',13245,'HI','Pot',0,0,0,0,1);
INSERT INTO Property VALUES (10047,'Tower Avenue',12346,'HI','Pot',0,0,0,0,1);
INSERT INTO Property VALUES (10048,'Anchor Way',13245,'HI','Pot',0,0,0,0,1);
INSERT INTO Property VALUES (10049,'Texas Street',13245,'HI','Pot',0,0,0,0,1);
INSERT INTO Property VALUES (10050,'Pineapple Lane',12345,'HI','Pot',0,0,0,0,1);

INSERT INTO BusinessContact
(FName,LName,Phone,Street,ZipCode,State,OfficePhone,GeoArea,CommisionStructure)
VALUES ('Johnny','Elaine',1111221234,'11 Newsroom Street',96701,'HI',9111199191,'S',0.15);
INSERT INTO BusinessContact
(FName,LName,Phone,Street,ZipCode,State,OfficePhone,GeoArea,CommisionStructure)
VALUES ('Squillam','Fancyson',1111331234,'294 Mansion Ave',96703,'HI',1199111919,'S',0.05);
INSERT INTO BusinessContact
(FName,LName,Phone,Street,ZipCode,State,OfficePhone,GeoArea,CommisionStructure)
VALUES ('Flying','Dutchman',1111441234,'4124 Flying Dutchman
St',96704,'HI',8881234567,'S',0.1);
INSERT INTO BusinessContact
(FName,LName,Phone,Street,ZipCode,State,OfficePhone,GeoArea,CommisionStructure)
VALUES ('Jelly','Fish',2222214321,'999 Jellyfish Fields',96705,'HI',8890000000,'NW',0.2);
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```
INSERT INTO BusinessContact
(FName,LName,Phone,Street,ZipCode,State,OfficePhone,GeoArea,CommisionStructure)
VALUES ('Craig','Mammalton',2223312341,'1293 Suntan
Beach',96706,'HI',8881235555,'SW',0.33);
INSERT INTO BusinessContact
(FName,LName,Phone,Street,ZipCode,State,OfficePhone,GeoArea,CommisionStructure)
VALUES ('Sea','Bear',2224413214,'1000 Circle Drive',96707,'HI',8891223311,'SE',0.25);
INSERT INTO BusinessContact
(FName,LName,Phone,Street,ZipCode,State,OfficePhone,GeoArea,CommisionStructure)
VALUES ('Smitty','Werbenmanjenson',3332129876,'3891 Hewasnumberone
St',96708,'HI',8882020201,'SW',0.08);
INSERT INTO BusinessContact
(FName,LName,Phone,Street,ZipCode,State,OfficePhone,GeoArea,CommisionStructure)
VALUES ('Old Man','Jenkins',3331216978,'1020 Oldtimers
Blvd',96709,'HI',7881099876,'SW',0.08);
INSERT INTO BusinessContact
(FName,LName,Phone,Street,ZipCode,State,OfficePhone,GeoArea,CommisionStructure)
VALUES ('Wormy','Worm',3333139678,'9111 Flyer Drive',96710,'HI',8891112233,'S',0.2);
INSERT INTO BusinessContact
(FName,LName,Phone,Street,ZipCode,State,OfficePhone,GeoArea,CommisionStructure)
VALUES ('Master','Udon',4441234321,'0753 Karate King Way',96711,'HI',6549009000,'W',0.12);

INSERT INTO WIP_Property VALUES ('10011','12/15/2018',200000,100000,1);
INSERT INTO WIP_Property VALUES ('10012','12/22/2018',100000,150000,1);
INSERT INTO WIP_Property VALUES ('10013','01/02/2019',199000,80000,1);
INSERT INTO WIP_Property VALUES ('10014','01/11/2019',150000,105000,0);
INSERT INTO WIP_Property VALUES ('10015','01/15/2019',105000,115000,0);
INSERT INTO WIP_Property VALUES ('10016','02/16/2019',220000,70000,1);
INSERT INTO WIP_Property VALUES ('10017','02/19/2019',175000,110000,0);
INSERT INTO WIP_Property VALUES ('10018','03/03/2019',275000,20000,1);
INSERT INTO WIP_Property VALUES ('10019','03/14/2019',198000,75000,1);
INSERT INTO WIP_Property VALUES ('10020','03/19/2018',189000,100500,0);
INSERT INTO WIP_Property VALUES ('10031','01/02/2019',200000,80000,1);
INSERT INTO WIP_Property VALUES ('10032','01/11/2019',100000,105000,1);
INSERT INTO WIP_Property VALUES ('10033','01/15/2019',199000,115000,1);
INSERT INTO WIP_Property VALUES ('10034','02/16/2019',150000,70000,1);
INSERT INTO WIP_Property VALUES ('10035','02/19/2019',105000,110000,1);
INSERT INTO WIP_Property VALUES ('10036','03/03/2019',220000,20000,1);
INSERT INTO WIP_Property VALUES ('10037','03/14/2019',175000,75000,1);
INSERT INTO WIP_Property VALUES ('10038','04/04/2014',100000,100500,1);
INSERT INTO WIP_Property VALUES ('10039','03/03/2014',199000,70000,1);
INSERT INTO WIP_Property VALUES ('10040','02/02/2018',150000,110000,1);
INSERT INTO WIP_Property VALUES ('10041','01/01/2017',212250.456,48492,1);
INSERT INTO WIP_Property VALUES ('10042','02/07/2017',48721.1274,40605,1);
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```
INSERT INTO WIP_Property VALUES ('10044','04/05/2017',114262.47,36852,0);
INSERT INTO WIP_Property VALUES ('10047','03/02/2018',202417.5492,71002,1);
INSERT INTO WIP_Property VALUES ('10048','09/01/2017',67081.0842,17611,1);
INSERT INTO WIP_Property VALUES ('10049','10/12/2017',110286.4284,14441,0);
```

```
INSERT INTO Sold_Property VALUES ('10001','2/1/19',230755,58417,230397,-358,1,'Flying
Dutchman',3826);
INSERT INTO Sold_Property VALUES ('10002','2/1/19',118662,37468,148613,29951,1,'Sea
Bear',1828);
INSERT INTO Sold_Property VALUES ('10003','2/14/19',123642,66750,121618,-2024,0,'Sea
Bear',2596);
INSERT INTO Sold_Property VALUES ('10004','2/16/19',150968,79168,212022,61054,0,'Old Man
Jenkins',4357);
INSERT INTO Sold_Property VALUES ('10005','3/4/19',291218,88246,323169,31951,1,'Flying
Dutchman',3466);
INSERT INTO Sold_Property VALUES ('10006','3/26/19',247675,96892,346823,99148,1,'Jelly
Fish',2445);
INSERT INTO Sold_Property VALUES ('10007','3/27/19',112313,31983,140126,27813,0,'Old Man
Jenkins',2524);
INSERT INTO Sold_Property VALUES ('10008','3/28/19',259571,27591,312937,53366,1,'Sea
Bear',3164);
INSERT INTO Sold_Property VALUES ('10009','3/28/19',291266,86511,382165,90899,0,'Sea
Bear',4435);
INSERT INTO Sold_Property VALUES ('10010','3/30/19',128669,52738,222809,94140,1,'Jelly
Fish',4325);
INSERT INTO Sold_Property VALUES ('10018','01/01/2017',118108,7764,250000,124128,1,'Jelly
Fish',2269);
INSERT INTO Sold_Property VALUES ('10019','02/01/2018',78510,11506,200000,109984,1,'Old
Man Jenkins',2512);
INSERT INTO Sold_Property VALUES
('10041','03/04/2018',136844,68913,375000,169243,0,'Flying Dutchman',3575);
```

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INSERT INTO Vac_Property VALUES ('10021','3/4/19',10605,4,293149,368735);
INSERT INTO Vac_Property VALUES ('10022','3/26/19',5801,1,218530,33437);
INSERT INTO Vac_Property VALUES ('10023','3/27/19',13959,1,104827,98290);
INSERT INTO Vac_Property VALUES ('10024','3/28/19',9343,2,128226,57998);
INSERT INTO Vac_Property VALUES ('10025','3/28/19',14819,3,83763,36299);
INSERT INTO Vac_Property VALUES ('10026','3/30/19',8700,1,135811,83599);
INSERT INTO Vac_Property VALUES ('10027','1/2/19',7667,1,231370,48505);
INSERT INTO Vac_Property VALUES ('10028','1/3/19',12924,2,75962,-1642);
INSERT INTO Vac_Property VALUES ('10029','2/27/19',13305,1,287546,63659);
```

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INSERT INTO Vac_Property VALUES ('10030','2/16/19',7791,3,174469,4474);
INSERT INTO Vac_Property VALUES ('10042','01/01/2017',5229,6,240139,104360);
INSERT INTO Vac_Property VALUES ('10047','02/04/2018',5287,5,51895,229072);
INSERT INTO Vac_Property VALUES ('10048','10/12/2018',5414,8,178352,173294);



INSERT INTO Contract (FolioNum,ContractorID) VALUES ('10041',1);
INSERT INTO Contract (FolioNum,ContractorID) VALUES ('10021',2);
INSERT INTO Contract (FolioNum,ContractorID) VALUES ('10002',3);
INSERT INTO Contract (FolioNum,ContractorID) VALUES ('10048',4);
INSERT INTO Contract (FolioNum,ContractorID) VALUES ('10017',5);
INSERT INTO Contract (FolioNum,ContractorID) VALUES ('10030',6);
INSERT INTO Contract (FolioNum,ContractorID) VALUES ('10035',7);
INSERT INTO Contract (FolioNum,ContractorID) VALUES ('10009',8);
INSERT INTO Contract (FolioNum,ContractorID) VALUES ('10020',9);
INSERT INTO Contract (FolioNum,ContractorID) VALUES ('10042',10);

INSERT INTO RentalProperty VALUES ('10031',1500,750,0,0);
INSERT INTO RentalProperty VALUES ('10032',700,350,1,400);
INSERT INTO RentalProperty VALUES ('10033',1750,875,0,0);
INSERT INTO RentalProperty VALUES ('10034',2400,1200,0,0);
INSERT INTO RentalProperty VALUES ('10035',1550,775,0,0);
INSERT INTO RentalProperty VALUES ('10036',1200,600,1,250);
INSERT INTO RentalProperty VALUES ('10037',3000,1500,0,0);
INSERT INTO RentalProperty VALUES ('10038',1700,850,0,0);
INSERT INTO RentalProperty VALUES ('10039',900,450,1,400);
INSERT INTO RentalProperty VALUES ('10040',1590,795,0,0);
INSERT INTO RentalProperty VALUES ('10011',665,2272,0,NULL);
INSERT INTO RentalProperty VALUES ('10012',2658,1386,0,NULL);
INSERT INTO RentalProperty VALUES ('10013',1142,701,0,NULL);
INSERT INTO RentalProperty VALUES ('10016',2039,739,0,500);
INSERT INTO RentalProperty VALUES ('10018',730,1724,0,0);
INSERT INTO RentalProperty VALUES ('10019',1483,1733,0,NULL);

INSERT INTO Tenant (FName,LName,Phone) VALUES ('Tom','Kenny',8881234567);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Bill','Fagerbakke',8881523678);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Clancy','Brown',8781245673);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Roger','Bumpass',8781527658);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Jill ','Talley',8889996666);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Mr.','Lawrence',8888439785);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Carolyn','Lawrence',8981239894);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Dee Bradley','Baker',8984788956);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Mary Jo ','Cattlet',7864858986);
```

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INSERT INTO Tenant (FName,LName,Phone) VALUES ('Lori','Alan',7865259867);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Bob','McBob',8008109170);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Paper','Bones',8105759807);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Krusty','Busstop',7941245997);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Squirrel','Numerodos',8854687417);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Barnacle','Cousin',8169115851);
INSERT INTO Tenant (FName,LName,Phone) VALUES ('Alaskan','Bullworm',8861978463);

INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(50,50,'12/12/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(75,75,'12/20/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(50,100,'01/12/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(75,125,'01/24/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(40,40,'02/10/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(45,45,'03/01/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(50,150,'03/12/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(45,90,'03/10/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(60,60,'03/15/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(25,25,'04/01/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(10,10,'01/02/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(50,50,'03/01/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(75,75,'03/01/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(100,100,'04/01/2019');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(200,200,'01/01/2018');
INSERT INTO LateFeeHistory (LateFeeAmt,LateFeeIncurr,LateFeeDate) VALUES
(75,75,'04/01/2018');

INSERT INTO Lender
(FName,LName,Phone,Street,City,State,ZipCode,ProgramType,ContactName) VALUES
```

```
('Dirty','Bubble ','9994215648','4970 Pineapple Lane','Bikini
Bottom','HI','12345','Mortgage','Craig Mammalton');
INSERT INTO Lender
(FName,LName,Phone,Street,City,State,ZipCode,ProgramType,ContactName) VALUES
('Richard','Bottomfeeder','9994315647','190 Anchor Way','Bikini Bottom','HI','12346','Home
Equity','Squillam Fancyson');
INSERT INTO Lender
(FName,LName,Phone,Street,City,State,ZipCode,ProgramType,ContactName) VALUES ('Nat
','Peterson','7874551234','76 Chum Lane','Bikini Bottom','HI','12346','Refinance','Wormy
Worm');
INSERT INTO Lender
(FName,LName,Phone,Street,City,State,ZipCode,ProgramType,ContactName) VALUES
('Subie','Rechid','7974551246','100 Driving Street','Bikini
Bottom','HI','12346','Mortgage','Master Udon');
INSERT INTO Lender
(FName,LName,Phone,Street,City,State,ZipCode,ProgramType,ContactName) VALUES
('Ted','Fish','4445670123','1 Star Drive','Los Angeles','CA','67924','Mortgage','Craig
Mammalton');
INSERT INTO Lender
(FName,LName,Phone,Street,City,State,ZipCode,ProgramType,ContactName) VALUES ('Patty
','Caper','3331234567','39 Pecan Street','Dallas','TX','57841','Home Equity','Craig Mammalton');
INSERT INTO Lender
(FName,LName,Phone,Street,City,State,ZipCode,ProgramType,ContactName) VALUES
('Horace','Whopper','4446789876','5900 Sun Street','Los Angeles','CA','67924','Home
Equity','Squillam Fancyson');
INSERT INTO Lender
(FName,LName,Phone,Street,City,State,ZipCode,ProgramType,ContactName) VALUES
('Judge','Stickleback','9995674532','2211 Texas Street ','Bikini Bottom','HI','13245','Mortgage
Insurance','Master Udon');
INSERT INTO Lender
(FName,LName,Phone,Street,City,State,ZipCode,ProgramType,ContactName) VALUES
('Miss','Shell','9995675521','567 Pineapple Way','Bikini Bottom','HI','12345','Mortgage','Wormy
Worm');
INSERT INTO Lender
(FName,LName,Phone,Street,City,State,ZipCode,ProgramType,ContactName) VALUES
('Sand','Dollar','8881937652','12 Beaches','Bikini Bottom','HI','12345','Refinance','Wormy
Worm');

INSERT INTO RepairEscrowAccount (InitialAccountBalance) VALUES (1000000);
INSERT INTO RepairEscrowAccount (InitialAccountBalance) VALUES (780000);
INSERT INTO RepairEscrowAccount (InitialAccountBalance) VALUES (200000);
INSERT INTO RepairEscrowAccount (InitialAccountBalance) VALUES (450000);
INSERT INTO RepairEscrowAccount (InitialAccountBalance) VALUES (125000);
INSERT INTO RepairEscrowAccount (InitialAccountBalance) VALUES (2500000);
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INSERT INTO RepairEscrowAccount (InitialAccountBalance) VALUES (110000);
INSERT INTO RepairEscrowAccount (InitialAccountBalance) VALUES (75000);
INSERT INTO RepairEscrowAccount (InitialAccountBalance) VALUES (625000);
INSERT INTO RepairEscrowAccount (InitialAccountBalance) VALUES (350000);

INSERT INTO Owner (FName,LName,Street,City,State,ZipCode,Phone) VALUES
('SpongeBob','Squarepants','123 Pineapple Lane','Bikini Bottom','HI','12345','1015559999');
INSERT INTO Owner (FName,LName,Street,City,State,ZipCode,Phone) VALUES
('Patrick','Star','125 Pineapple Lane','Bikini Bottom','HI','12345','1015568888');
INSERT INTO Owner (FName,LName,Street,City,State,ZipCode,Phone) VALUES
('Sheldon','Plankton','12 Chum Lane','Bikini Bottom','HI','12346','1015551111');
INSERT INTO Owner (FName,LName,Street,City,State,ZipCode,Phone) VALUES
('Gary','Squarepants','123 Pineapple Lane','Bikini Bottom','HI','12345','1015562121');
INSERT INTO Owner (FName,LName,Street,City,State,ZipCode,Phone) VALUES ('Mrs.','Puff','24
Driving Street','Bikini Bottom','HI','12346','1015553456');
INSERT INTO Owner (FName,LName,Street,City,State,ZipCode,Phone) VALUES
('Pearl','Krabs','3451 Anchor Way','Bikini Bottom','HI','13245','1015562122');
INSERT INTO Owner (FName,LName,Street,City,State,ZipCode,Phone) VALUES
('Squilliam','Fancypants','4 Tower Avenue','Bikini Bottom','HI','12346','1015558762');
INSERT INTO Owner (FName,LName,Street,City,State,ZipCode,Phone) VALUES
('Eugene','Krabs','3451 Anchor Way','Bikini Bottom','HI','13245','1015559090');
INSERT INTO Owner (FName,LName,Street,City,State,ZipCode,Phone) VALUES
('Sandy','Cheeks','1124 Texas Street','Bikini Bottom','HI','13245','1015563455');
INSERT INTO Owner (FName,LName,Street,City,State,ZipCode,Phone) VALUES
('Squidward','Tentacles','124 Pineapple Lane','Bikini Bottom','HI','12345','1015554246');

INSERT INTO Supplier (Name,Street,City,State,ZipCode,Phone,Discount,Type,ContactName)
VALUES ('Chum Bucket','12 Chum Lane','Bikini
Bottom','HI',12345,1012334455,0.1,'Paint','Sheldon Plankton');
INSERT INTO Supplier (Name,Street,City,State,ZipCode,Phone,Discount,Type,ContactName)
VALUES ('Krusty Krab','831 Bottom Feeder Lane','Bikini
Bottom','HI',12346,1014567890,NULL,'Hardware','Eugene Krabs');
INSERT INTO Supplier (Name,Street,City,State,ZipCode,Phone,Discount,Type,ContactName)
VALUES ('Glove World','7 Amusement Street','Bikini
Bottom','HI',12346,1014235187,NULL,'Lumber','Evelyn');
INSERT INTO Supplier (Name,Street,City,State,ZipCode,Phone,Discount,Type,ContactName)
VALUES ('Weenie Hut Jrs','100 Weenie Park','Bikini
Bottom','HI',12345,1017675189,0.15,'Lumber','Martha Smith');
INSERT INTO Supplier (Name,Street,City,State,ZipCode,Phone,Discount,Type,ContactName)
VALUES ('Super Weenie Hut Jrs','150 Weenie Park','Bikini
Bottom','HI',12345,1014230282,NULL,'General','Sandals');
INSERT INTO Supplier (Name,Street,City,State,ZipCode,Phone,Discount,Type,ContactName)
VALUES ('The Salty Spitoon','4490 Buff Man Lane','Bikini
Bottom','HI',13245,1019810400,NULL,'Foliage','Old Man Jenkins');
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INSERT INTO Supplier (Name,Street,City,State,ZipCode,Phone,Discount,Type,ContactName)
VALUES ('Pizza Piehole','1200 Tasty Road','Bikini Bottom','HI',13245,1017671297,0.12,'Interior
Decor','Scooter');
INSERT INTO Supplier (Name,Street,City,State,ZipCode,Phone,Discount,Type,ContactName)
VALUES ('Kelpshake','1290 Tasty Road','Bikini
Bottom','HI',12346,1019670505,0.03,'General','Frankie Billy');
INSERT INTO Supplier (Name,Street,City,State,ZipCode,Phone,Discount,Type,ContactName)
VALUES ('Weenie Hut','300 Weenie Park','Bikini
Bottom','HI',12345,1018651000,0.05,'NULL','Abigail Marge');
INSERT INTO Supplier (Name,Street,City,State,ZipCode,Phone,Discount,Type,ContactName)
VALUES ('Wet Noodle','400 Weenie Park','Bikini
Bottom','HI',12345,1018656000,0.05,'NULL','Painty the Pirate');

INSERT INTO Subcontractor (FName,LName,City,State,Street,ZipCode,Phone,HourlyRate)
VALUES ('Mermaid','Man','Sandy Shoals','HI','44 Retirement Avenue',13000,1013334444,12.5);
INSERT INTO Subcontractor (FName,LName,City,State,Street,ZipCode,Phone,HourlyRate)
VALUES ('Barnacle','Boy','Sandy Shoals','HI','44 Retirement Avenue',13000,1017677671,11.5);
INSERT INTO Subcontractor (FName,LName,City,State,Street,ZipCode,Phone,HourlyRate)
VALUES ('Flying','Dutchman','Los Angeles','CA','4370 Broken Boat Row',90210,7029994444,9.8);
INSERT INTO Subcontractor (FName,LName,City,State,Street,ZipCode,Phone,HourlyRate)
VALUES ('Larry the','Lobster','Bikini Bottom','HI','4621 Buff Man Lane',12345,1014232842,21);
INSERT INTO Subcontractor (FName,LName,City,State,Street,ZipCode,Phone,HourlyRate)
VALUES ('Bubble','Bass','Evilville','CA','79 Villianry Street',90210,7021001000,66.66);
INSERT INTO Subcontractor (FName,LName,City,State,Street,ZipCode,Phone,HourlyRate)
VALUES ('Man','Ray','Evilville','CA','77 Villianry Street',90210,7021112222,66.66);
INSERT INTO Subcontractor (FName,LName,City,State,Street,ZipCode,Phone,HourlyRate)
VALUES ('Dirty','Bubble','Evilville','CA','78 Villianry Street',90210,7026661111,66.66);
INSERT INTO Subcontractor (FName,LName,City,State,Street,ZipCode,Phone,HourlyRate)
VALUES ('Karen','Plankton','Bikini Bottom','CA','12 Chum Lane',90210,7026671111,45.75);
INSERT INTO Subcontractor (FName,LName,City,State,Street,ZipCode,Phone,HourlyRate)
VALUES ('King','Neptune','Atlantis','GA','1 King Court',65000,8655555555,425);
INSERT INTO Subcontractor (FName,LName,City,State,Street,ZipCode,Phone,HourlyRate)
VALUES ('Perch','Perkins','Bikini Bottom','HI','9000 Normal Way',12345,1012824174,7.8);

INSERT INTO Item (Description, UnitCost) VALUES ('Iron Hammer anti-RUST shield','5.11');
INSERT INTO Item (Description, UnitCost) VALUES ('Wrench 7/8 Xtreme','7.5');
INSERT INTO Item (Description, UnitCost) VALUES ('500 3/4" iron screws','1.25');
INSERT INTO Item (Description, UnitCost) VALUES ('100 2" screws','0.75');
INSERT INTO Item (Description, UnitCost) VALUES ('PaintWorld Paint primer 1 gallon','27.85');
INSERT INTO Item (Description, UnitCost) VALUES ('Sherwin Williams Ivory Matte paint 0.75
gal','21.25');
INSERT INTO Item (Description, UnitCost) VALUES ('Sherwin Williams Dove-gray HI-shine paint 1
gal','15.75');
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INSERT INTO Item (Description, UnitCost) VALUES ('Sherwin Williams Fuschia-baby matte paint
0.75 gal','12.22');
INSERT INTO Item (Description, UnitCost) VALUES ('Phillips screwdriver','3.82');
INSERT INTO Item (Description, UnitCost) VALUES ('Sherwin Williams glossy paint
primer','4.73');

INSERT INTO Tool (Descr, SubcontractorID) VALUES ('Hammer',1);
INSERT INTO Tool (Descr, SubcontractorID) VALUES ('Screwdriver',2);
INSERT INTO Tool (Descr, SubcontractorID) VALUES ('Chainsaw',3);
INSERT INTO Tool (Descr, SubcontractorID) VALUES ('Sledgehammer',4);
INSERT INTO Tool (Descr, SubcontractorID) VALUES ('Extra big sledgehammer',5);
INSERT INTO Tool (Descr, SubcontractorID) VALUES ('Paint primer',6);
INSERT INTO Tool (Descr, SubcontractorID) VALUES ('Wrench',7);
INSERT INTO Tool (Descr, SubcontractorID) VALUES ('Plyers',8);
INSERT INTO Tool (Descr, SubcontractorID) VALUES ('Paint roler',9);
INSERT INTO Tool (Descr, SubcontractorID) VALUES ('Saw',10);

INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Plumbing Expertise',2);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Carpentry Expertse',4);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Excavation Expertise ',5);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Concrete Work',8);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Electrical Expertise',9);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Large Project Experience',10);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Project Management',3);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Roofing Expertise',1);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Sheet Metal Work',7);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Pipe Fitting Expertise',6);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Masonry ',2);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Land Scaping',4);
INSERT INTO Skill (Descr,SubcontractorID) VALUES ('Installation ',9);

INSERT INTO PotentialProperty VALUES ('10041',2,3,6954,0,1,43560,'Real Estate
Professional','Wholesale',235833.84,212250.456,1,271208.916,1,0,'Fair',9);
INSERT INTO PotentialProperty VALUES ('10042',3,5,11024,0,1,9999,'Census
Bureau','Wholesale',54134.586,48721.1274,1,62254.7739,0,1,'Good',8);
INSERT INTO PotentialProperty VALUES ('10043',2,3,6357,0,1,10000,'Real Estate
Professional','Rehab',54140,48726,0,62261.,0,1,'Excellent',7);
INSERT INTO PotentialProperty VALUES ('10044',1,1,4751,1,0,23450,'Business
Contact','Rehab',126958.3,114262.47,1,146002.045,0,1,'Poor',7);
INSERT INTO PotentialProperty VALUES
('10045',3,4,4418,0,1,45486,'Employee','Rehab',246261.204,221635.0836,0,283200.3846,0,1,'F
air',3);
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INSERT INTO PotentialProperty VALUES
('10046',2,4,15952,0,1,9507,'Employee','Rehab',51470.898,46323.8082,0,59191.5327,1,0,'Good
',2);
INSERT INTO PotentialProperty VALUES ('10047',2,3,17689,1,0,41542,'Real Estate
Professional','Wholesale',224908.388,202417.5492,1,258644.6462,0,1,'Good',5);
INSERT INTO PotentialProperty VALUES
('10048',1,1,16443,0,1,13767,'Employee','Rehab',74534.538,67081.0842,1,85714.7187,0,1,'Exc
ellent',4);
INSERT INTO PotentialProperty VALUES
('10049',1,2,9383,1,0,22634,'Employee','Rehab',122540.476,110286.4284,1,140921.5474,0,1,'P
oor',10);
INSERT INTO PotentialProperty VALUES ('10050',1,3,11263,0,1,10769,'Real Estate
Professional','Wholesale',58303.366,52473.0294,0,67048.8709,0,1,'Poor',1);

INSERT INTO Draw
(DrawAmt,DrawDate,Drawitem,Description,FeeIncurred,SubcontractorID,AcctNum) VALUES
(5359,'2019/02/03','1','Iron Hammer anti-RUST shield',1,1,3);
INSERT INTO Draw
(DrawAmt,DrawDate,Drawitem,Description,FeeIncurred,SubcontractorID,AcctNum) VALUES
(6648,'2019/03/02','2','Wrench 7/8 Xtreme',1,2,7);
INSERT INTO Draw
(DrawAmt,DrawDate,Drawitem,Description,FeeIncurred,SubcontractorID,AcctNum) VALUES
(4118,'2019/01/31','3','500 3/4" iron screws',1,3,9);
INSERT INTO Draw
(DrawAmt,DrawDate,Drawitem,Description,FeeIncurred,SubcontractorID,AcctNum) VALUES
(2997,'2019/04/01','3','500 3/4" iron screws',1,4,10);
INSERT INTO Draw
(DrawAmt,DrawDate,Drawitem,Description,FeeIncurred,SubcontractorID,AcctNum) VALUES
(5426,'2018/02/05','3','500 3/4" iron screws',0,5,4);
INSERT INTO Draw
(DrawAmt,DrawDate,Drawitem,Description,FeeIncurred,SubcontractorID,AcctNum) VALUES
(6708,'2018/08/26','9','Phillips screwdriver',0,5,6);
INSERT INTO Draw
(DrawAmt,DrawDate,Drawitem,Description,FeeIncurred,SubcontractorID,AcctNum) VALUES
(2256,'2018/09/22','10','Sherwin Williams glossy paint primer',1,5,1);
INSERT INTO Draw
(DrawAmt,DrawDate,Drawitem,Description,FeeIncurred,SubcontractorID,AcctNum) VALUES
(2140,'2018/10/29','4','100 2" screws',0,6,2);
INSERT INTO Draw
(DrawAmt,DrawDate,Drawitem,Description,FeeIncurred,SubcontractorID,AcctNum) VALUES
(5275,'2019/02/02','2','Wrench 7/8 Xtreme',1,7,8);
INSERT INTO Draw
(DrawAmt,DrawDate,Drawitem,Description,FeeIncurred,SubcontractorID,AcctNum) VALUES
(9264,'2019/01/01','5','PaintWorld Paint primer 1 gallon',0,2,5);
```

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INSERT INTO OrderLine (OrderID,QtyPurch,PurchDate,SupplierID,ItemID) VALUES (10,5,'2019-02-11',1,1);
INSERT INTO OrderLine (OrderID,QtyPurch,PurchDate,SupplierID,ItemID) VALUES (9,2,'2018-11-22',3,3);
INSERT INTO OrderLine (OrderID,QtyPurch,PurchDate,SupplierID,ItemID) VALUES (9,1,'2018-03-04',3,8);
INSERT INTO OrderLine (OrderID,QtyPurch,PurchDate,SupplierID,ItemID) VALUES (7,25,'2019-01-04',5,9);
INSERT INTO OrderLine (OrderID,QtyPurch,PurchDate,SupplierID,ItemID) VALUES (5,11,'2018-07-29',8,6);
INSERT INTO OrderLine (OrderID,QtyPurch,PurchDate,SupplierID,ItemID) VALUES (4,4,'2017-08-09',10,6);
INSERT INTO OrderLine (OrderID,QtyPurch,PurchDate,SupplierID,ItemID) VALUES (7,2,'2018-01-31',10,4);
INSERT INTO OrderLine (OrderID,QtyPurch,PurchDate,SupplierID,ItemID) VALUES (2,1,'2019-02-02',7,2);
INSERT INTO OrderLine (OrderID,QtyPurch,PurchDate,SupplierID,ItemID) VALUES (1,1,'2018-10-29',7,5);
INSERT INTO OrderLine (OrderID,QtyPurch,PurchDate,SupplierID,ItemID) VALUES (3,7,'2018-03-10',4,10);

INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('01/01/2018','12/31/2018','10031',1,3);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('02/01/2018','08/31/2018','10032',2,4);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('03/01/2018','03/31/2019','10033',3,8);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('08/01/2018','05/31/2019','10034',4,9);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('01/01/2019','12/31/2019','10035',5,10);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('06/01/2018','06/30/2019','10036',6,1);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('07/01/2018','07/31/2019','10037',7,2);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('06/01/2018','12/31/2018','10038',8,5);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('02/01/2019','08/31/2019','10039',9,7);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('04/01/2018','10/31/2018','10040',10,6);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('12/01/2018','06/01/2019','10012',12,12);
```

```
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('02/02/2019','09/09/2019','10013',13,13);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('02/01/2019','07/01/2019','10016',14,14);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('09/09/2017','04/05/2018','10018',15,15);
INSERT INTO Lease (LeaseStart,LeaseEnd,FolioNumRent,TenantID,LateFeeID) VALUES
('10/01/2017','06/01/2018','10019',16,16);


INSERT INTO Loan
(ClosingCosts,TotalLoanAmt,DateIssued,LoanLength,RepaymentDate,InterestRate,OrginPoint,M
onthlyMortgagePMT,MortgageFees,MortgageTaxes,TotalMonthlyMortgage,DateGiven,PropTyp
e,FolioNum,LenderID) VALUES (8709.06,290302,'2018-02-01',10,'2028-02-
01',0.092,2903.02,26708.4757234501,240.376281511051,534.169514469001,27483.02151943
01,'2018-01-01','WIP','10011',2);
INSERT INTO Loan
(ClosingCosts,TotalLoanAmt,DateIssued,LoanLength,RepaymentDate,InterestRate,OrginPoint,M
onthlyMortgagePMT,MortgageFees,MortgageTaxes,TotalMonthlyMortgage,DateGiven,PropTyp
e,FolioNum,LenderID) VALUES (3709.62,123654,'2018-04-24',10,'2028-04-
24',0.011,1236.54,1860.90247537812,16.748122278403,37.2180495075623,1914.8686471640
8,'2017-09-01','Rent','10031',3);
INSERT INTO Loan
(ClosingCosts,TotalLoanAmt,DateIssued,LoanLength,RepaymentDate,InterestRate,OrginPoint,M
onthlyMortgagePMT,MortgageFees,MortgageTaxes,TotalMonthlyMortgage,DateGiven,PropTyp
e,FolioNum,LenderID) VALUES (12989.61,432987,'2018-7-23',15,'2028-7-
23',0.110,4329.87,47628.5703309264,428.657132978337,952.571406618527,49009.79887052
32,'2019-01-01','WIP','10013',7);
INSERT INTO Loan
(ClosingCosts,TotalLoanAmt,DateIssued,LoanLength,RepaymentDate,InterestRate,OrginPoint,M
onthlyMortgagePMT,MortgageFees,MortgageTaxes,TotalMonthlyMortgage,DateGiven,PropTyp
e,FolioNum,LenderID) VALUES (17498.79,583293,'2018-12-12',15,'2028-12-
12',0.045,5832.93,26257.6981505793,236.319283355213,525.153963011585,27019.17139694
61,'2018-06-01','WIP','10014',9);
INSERT INTO Loan
(ClosingCosts,TotalLoanAmt,DateIssued,LoanLength,RepaymentDate,InterestRate,OrginPoint,M
onthlyMortgagePMT,MortgageFees,MortgageTaxes,TotalMonthlyMortgage,DateGiven,PropTyp
e,FolioNum,LenderID) VALUES (31617.6,1053920,'2019-01-14',20,'2029-01-
14',0.100,10539.2,105392.000012262,948.528000110358,2107.84000024524,108448.3680126
18,'2018-03-01','Vac','10029',10);
INSERT INTO Loan
(ClosingCosts,TotalLoanAmt,DateIssued,LoanLength,RepaymentDate,InterestRate,OrginPoint,M
onthlyMortgagePMT,MortgageFees,MortgageTaxes,TotalMonthlyMortgage,DateGiven,PropTyp
e,FolioNum,LenderID) VALUES (9055.29,301843,'2019-02-19',10,'2029-02-
```

```
19',0.050,3018.43,15135.5292183706,136.219762965335,302.710584367412,15574.4595657033,'2018-01-01','Vac','10030',1);
INSERT INTO Loan
(ClosingCosts,TotalLoanAmt,DateIssued,LoanLength,RepaymentDate,InterestRate,OrginPoint,MonthlyMortgagePMT,MortgageFees,MortgageTaxes,TotalMonthlyMortgage,DateGiven,PropType,FolioNum,LenderID) VALUES (3131.76,104392,'2019-02-22',10,'2029-02-22',0.150,1043.92,15658.8008147374,140.929207332637,313.176016294748,16112.9060383648,'2018-09-01','Pot','10047',1);
INSERT INTO Loan
(ClosingCosts,TotalLoanAmt,DateIssued,LoanLength,RepaymentDate,InterestRate,OrginPoint,MonthlyMortgagePMT,MortgageFees,MortgageTaxes,TotalMonthlyMortgage,DateGiven,PropType,FolioNum,LenderID) VALUES (11529.96,384332,'2019-03-01',10,'2029-03-01',0.132,3843.32,50731.8415270734,456.58657374366,1014.63683054147,52203.0649313585,'2018-01-01','WIP','10019',4);
INSERT INTO Loan
(ClosingCosts,TotalLoanAmt,DateIssued,LoanLength,RepaymentDate,InterestRate,OrginPoint,MonthlyMortgagePMT,MortgageFees,MortgageTaxes,TotalMonthlyMortgage,DateGiven,PropType,FolioNum,LenderID) VALUES (16363.56,545452,'2019-03-15',15,'2029-03-15',0.100,5454.52,54545.2019322941,490.906817390647,1090.90403864588,56127.0127883306,'2019-02-01','Rent','10037',6);
INSERT INTO Loan
(ClosingCosts,TotalLoanAmt,DateIssued,LoanLength,RepaymentDate,InterestRate,OrginPoint,MonthlyMortgagePMT,MortgageFees,MortgageTaxes,TotalMonthlyMortgage,DateGiven,PropType,FolioNum,LenderID) VALUES (7500,250000,'2019-03-20',10,'2029-03-20',0.050,2500,12535.9286271096,112.823357643986,250.718572542192,12899.4705572958,'2017-10-31','Sold','10003',8);

INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,WarrantyWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,FolioNum,AcctNum,OrderLineID) VALUES (1050,900,600,300,'03/15/2019','Leaking Roof',0,'Johnny',2,50.00,NULL,12,1,'10035',9,1);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,WarrantyWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,FolioNum,AcctNum,OrderLineID) VALUES (350,200,200,0,'01/15/2019','Air Conditioner Not Working',1,'Squillam',1,50.00,NULL,4,3,'10036',10,2);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,WarrantyWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,FolioNum,AcctNum,OrderLineID) VALUES (330,180,105,75,'12/15/2018','Patch Holes in Walls',0,'Flying',1,35.00,NULL,3,4,'10011',1,3);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
```

```
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (530,380,180,200,'01/16/2019','Repaint
Walls',0,'Jelly',2,18.00,NULL,10,4,'10012',1,3);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (410,260,160,100,'03/15/2019','Busted
Pipes',0,'Craig',1,40.00,NULL,4,5,'10013',2,4);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (295,145,45,100,'01/19/2019','Broken
Window',1,'Sea',1,15.00,NULL,3,9,'10014',2,4);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (1390,1240,240,1000,'01/17/2019','Hot Water Heater
Replacement',1,'Smitty',1,40.00,NULL,6,10,'10015',3,5);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (1440,1290,90,1200,'02/15/2019','Washer and Dryer
Installation ',1,'Old Man',1,18.00,NULL,5,7,'10016',4,5);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (1920,1770,270,1500,'01/22/2019','Exterior
Repaint',0,'Wormy',2,18.00,NULL,15,2,'10017',5,2);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (2492,2342,342,2000,'02/26/2019','Redo Outdoor
Patio',0,'Master',3,19.00,NULL,18,2,'10018',6,8);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (1922,1772,272,1500,'02/22/2018','Retile
Floor',1,'Wormy',2,17.00,NULL,16,6,'10019',7,9);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (1026,876,176,700,'03/24/2019','Revamp
Garden',0,'Wormy',2,11.00,NULL,16,9,'10020',8,10);
```

```
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (2190,2040,1440,600,'3/1/2019','Electrical
Rewiring',1,'Squillam',3,60.00,NULL,24,8,'10035',9,1);
INSERT INTO Repair
(AllottedMoney,ActualRepairCost,ActualLaborCost,TotalMaterialCost,Date,Description,Warrant
yWork,ContactPerson,DaysWorked,HourlyWage,BonusAmount,HoursWorked,SubcontractorID,
FolioNum,AcctNum,OrderLineID) VALUES (6750,6600,600,6000,'03/27/2019','Fix Wood
Siding',1,'Craig',3,25.00,NULL,24,10,'10036',10,2);

INSERT INTO Permit (Cost,RepairID) VALUES (70,1);
INSERT INTO Permit (Cost,RepairID) VALUES (50,10);
INSERT INTO Permit (Cost,RepairID) VALUES (50,12);
INSERT INTO Permit (Cost,RepairID) VALUES (100,6);
INSERT INTO Permit (Cost,RepairID) VALUES (65,7);
INSERT INTO Permit (Cost,RepairID) VALUES (30,5);
INSERT INTO Permit (Cost,RepairID) VALUES (30,4);
INSERT INTO Permit (Cost,RepairID) VALUES (75,11);
INSERT INTO Permit (Cost,RepairID) VALUES (40,3);
INSERT INTO Permit (Cost,RepairID) VALUES (40,2);

INSERT INTO PropViolation (Descr, FolioNumPotential) VALUES ('Unregistered
Boatmobile','10041');
INSERT INTO PropViolation (Descr, FolioNumPotential) VALUES ('Tall Barnacles','10042');
INSERT INTO PropViolation (Descr, FolioNumPotential) VALUES ('Graffiti','10043');
INSERT INTO PropViolation (Descr, FolioNumPotential) VALUES ('Hooks in Yard','10044');
INSERT INTO PropViolation (Descr, FolioNumPotential) VALUES ('Bad Clarinet Music','10045');
INSERT INTO PropViolation (Descr, FolioNumPotential) VALUES ('Broken Windows','10046');
INSERT INTO PropViolation (Descr, FolioNumPotential) VALUES ('Trash','10047');
INSERT INTO PropViolation (Descr, FolioNumPotential) VALUES ('Unauthorized
Improvements','10048');
INSERT INTO PropViolation (Descr, FolioNumPotential) VALUES ('Failure to Pay Taxes','10049');
INSERT INTO PropViolation (Descr, FolioNumPotential) VALUES ('Exposed Roof','10050');
```

SQL for Reports

Repair History (6)

```
CREATE VIEW REPAIR_HISTORY AS
SELECT REPAIRID, DESCRIPTION, DATE, ACTUALLABORCOST AS TOTAL_LABOR_COST,
TOTALMATERIALCOST AS TOTAL_MATERIAL_COST,
TOTALMATERIALCOST + ACTUALLABORCOST AS TOTAL_COST,
ALLOTTEDMONEY,
ALLOTTEDMONEY-(TOTALMATERIALCOST + ACTUALLABORCOST) AS AMOUNT_OVER_BUDGET,
REPAIR.FOLIONUM, CURRENTTYPE,
DATEPURCHASED AS PURCHASE_DATE, PURCHASEPRICE AS PURCHASE_PRICE,
COMPLETEDIMPROV AS COMPLETED_IMPROVEMENTS
FROM REPAIR LEFT OUTER JOIN PROPERTY
ON REPAIR.FOLIONUM=PROPERTY.FOLIONO
LEFT OUTER JOIN WIP_PROPERTY
ON REPAIR.FOLIONUM=WIP_PROPERTY.FOLIONUMWIP
LEFT OUTER JOIN RENTALPROPERTY
 ON REPAIR.FOLIONUM=RENTALPROPERTY.FOLIONUMRENT;
```

Order Information (9)

```
CREATE VIEW OrderInformation AS
SELECT o.OrderlineID,
o.OrderID,
i.Description,
o.QtyPurch,
i.UnitCost,
o.PurchDate,
(o.QtyPurch * i.UnitCost) AS TotalOrderlineCost,
TotalOrderCost,
s.Name AS SupplierName,
s.Type AS SupplierSpecialty
FROM
Orderline AS o INNER JOIN
Supplier AS s ON o.SupplierID = s.SupplierID
INNER JOIN Item AS i ON i.ItemID = o.ItemID
INNER JOIN TotalOrderCost ON o.OrderID = TotalOrderCost.OrderID
GROUP BY
o.OrderlineID, o.OrderID, i.Description, o.QtyPurch,
i.UnitCost, o.PurchDate, s.Name, s.Type, TotalOrderCost;

CREATE VIEW TotalOrderCost AS
```

```
SELECT OrderID, SUM(orderline.QtyPurch * item.UnitCost) AS TotalOrderCost
FROM Orderline INNER JOIN
Item ON Orderline.ItemID = item.itemid
GROUP BY OrderID;
```

Yearly Spend (Extra)

```
CREATE VIEW YearlySpend AS
SELECT SUM(a.LineCost) AS TotalSpend
FROM
(SELECT (i.unitcost*ol.QtyPurch) AS LineCost
FROM Orderline AS ol
INNER JOIN Item AS i
ON i.itemid = ol.itemid
WHERE YEAR(ol.PurchDate) = YEAR(GETDATE())) AS a;
```

Phonebook (Extra)

```
CREATE VIEW Phonebook AS
SELECT Name,
(Street+ ' '+ City+ ', '+ State+ ' '+ ZipCode) AS Address,
Phone,
'Supplier' AS Relationship
FROM Supplier
UNION
SELECT (FName+ ' '+ Lname) AS Name,
(Street+ ' '+ City+ ', '+ State+ ' '+ ZipCode) AS Address,
Phone,
'Owner' AS Relationship
FROM Owner
UNION
SELECT (FName+ ' '+ Lname) AS Name,
(Street+ ' '+ City+ ', '+ State+ ' '+ ZipCode) AS Address,
Phone,
'Subcontractor' AS Relationship
FROM Subcontractor
UNION
SELECT (FName+ ' '+ Lname) AS Name,
(Street+ ' '+ City' + ', '+ State+ ' '+ ZipCode) AS Address,
Phone,
'Business Contact' AS Relationship
FROM BusinessContact
UNION
```

```
SELECT
(t.FName+ ' '+ t.LName) AS Name,
(p.Street+ ' '+ p.City+ ', '+ p.State+ ' '+ p.ZipCode) AS Address,
Phone,
'Current Tenant' AS Relationship
FROM Tenant AS t
LEFT OUTER JOIN Lease AS l
ON t.TenantID = l.TenantID
INNER JOIN RentalProperty AS rp
ON l.FolioNumRent = rp.FolioNumRent
INNER JOIN Property AS p
ON p.foliono = rp.FolioNumRent
WHERE DATEDIFF(day, GETDATE(), l.LeaseEnd) > 0
UNION
SELECT
(t.FName+ ' '+ t.LName) AS Name,
' ' AS Address,
Phone,
'Former Tenant' AS Relationship
FROM Tenant AS t
LEFT OUTER JOIN Lease AS l
ON t.TenantID = l.TenantID
INNER JOIN RentalProperty AS rp
ON l.FolioNumRent = rp.FolioNumRent
INNER JOIN Property AS p
ON p.foliono = rp.FolioNumRent
WHERE DATEDIFF(day, GETDATE(), l.LeaseEnd) <= 0
UNION
SELECT (FName+ ' '+ Lname) AS Name,
(Street+ ' '+ City+ ', '+ State+ ' '+ ZipCode) AS Address,
Phone,
'Lender' AS Relationship
FROM Lender;
```

Rentals to Sell (Extra)

```
CREATE VIEW RentalsToSell AS
SELECT rp.FolioNumRent, a.MonthsofLease*rp.MonthlyRent AS TotalAmtRent,
                SUM(r.ActualRepairCost) AS TotalAmtofRepairs,
                DATEDIFF(day, wip.DatePurchased, GETDATE()) AS PossessionTime,
                wip.PurchasePrice
FROM RentalProperty AS rp INNER JOIN
(SELECT FolioNumRent, DATEDIFF(month,LeaseStart, LeaseEnd) AS MonthsOfLease
FROM Lease
```

```
GROUP BY FolioNumRent, LeaseStart,LeaseEnd) AS a
ON rp.FolioNumRent = a.FolioNumRent
INNER JOIN WIP_Property as wip
ON wip.FolioNumWIP = rp.FolioNumRent
INNER JOIN Repair AS r
ON r.FolioNum = rp.FolioNumRent
WHERE rp.FolioNumRent IN (SELECT FolioNo FROM Property WHERE PropType_Rent = 1)
GROUP BY rp.FolioNumRent, wip.DatePurchased, a.MonthsOfLease, rp.MonthlyRent,
wip.PurchasePrice
HAVING  (a.MonthsofLease*rp.MonthlyRent) > SUM(r.ActualRepairCost);
```

Work-in-Progress Properties to Finish Repairs (7)

```
CREATE VIEW WIPProperties_ToFinishRepairs AS
SELECT FolioNumWIP, DatePurchased, DATEDIFF(day, DatePurchased, GETDATE()) AS
DaysSincePurchase, PurchasePrice, RehabAmt
FROM WIP_Property
WHERE CompletedImprov = 0
AND FolioNumWIP IN (SELECT FolioNo FROM Property WHERE PropType_WIP = 1)
GROUP BY FolioNumWIP, DatePurchased, PurchasePrice, RehabAmt
HAVING DATEDIFF(day, DatePurchased, GETDATE()) > 21;
```

Current Leases (5)

```
CREATE VIEW CurrentLeases AS
SELECT rp.FolioNumRent, l.LeaseID, t.TenantID,
(t.FName + ' ' + t.LName) AS FullName,
DATEDIFF(day, GETDATE(), l.LeaseEnd) AS DaysUntilLeaseEnds
FROM Lease AS l INNER JOIN
RentalProperty AS rp ON rp.FolioNumRent = l.FolioNumRent INNER JOIN
Tenant AS t ON t.TenantID = l.TenantID
AND l.FolioNumRent = rp.FolioNumRent
GROUP BY rp.FolioNumRent, l.LeaseID, t.TenantID, t.FName, t.LName, l.LeaseEnd
HAVING DATEDIFF(day, GETDATE(), l.LeaseEnd) > 0;
```

Potential Properties (10)

```
CREATE VIEW PotentialProperties AS
SELECT
p.Folionumpot,
 p.Bathnum,
p.Bednum,
p.Sq_footage,
```

```
p.Lotsize,
p.How_identified,
p.Exitstrategy,
p.AskingPrice,
p.Condition,
(o.Fname + ' ' + o.Lname) AS OwnerName,
(bc.Fname + ' ' +bc.Lname) AS BusinessContactName,
bc.OfficePhone AS BusinessContactOfficePhone
FROM
PotentialProperty AS p INNER JOIN
Owner AS o ON o.ownerID = p.ownerID
INNER JOIN Property AS Prop
ON p.Folionumpot = Prop.FolioNo
LEFT OUTER JOIN Contract AS c
ON Prop.FolioNo = c.FolioNum
LEFT OUTER JOIN BusinessContact AS bc
ON bc.contractorID = c.contractorID
WHERE p.Folionumpot IN (SELECT FolioNo FROM Property WHERE PropType_Pot = 1) ;
```

Descriptions of Prototype Elements

Database

The back-end database is built from the conceptual model from the Phase I documents, carefully designed with 3F's business needs and rules in mind. All documentation on datatypes and fields can be found in the data dictionary along with the Phase I documents. The changes are highlighted in red to reflect all changes that have been made since the most recent update.

Switchboard

The switchboard is the 'home' of all of the reports and forms for end-users by Access. There are forms, reports, and general information. Forms have all five entry forms ready for use. Reports contains six reports that are very specific for 3F's needs. General Information also contains two more general reports—the Phonebook report and Yearly Spend.

Reports

Repair History (6)

This report provides a repair history for each property that has had repairs. It shows information on the repair ID, labor cost, material cost, total cost, allotted money for the repair, and amount spent over budget. Additionally, the report shows information about the property that had the repairs such as the property type, date purchased, purchase price, and whether or not improvements have been completed. The report has the ability to search by folio number and date range.

Order Information (9)

Order Information provides relevant information about every order. The report shows the date of the order, items ordered, quantity ordered, cost of each orderline, and cost of the entire order as a whole. In addition to that information, the report also shows basic information about the supplier such as supplier name and supplier type.

Yearly Spend (Extra)

Yearly Spend is report that shows the total amount of money that has been spent on Orders in the calendar year. This could easily be modified to look at spend for the current month or quarter, depending on 3F's reevaluated needs.

Phonebook (Extra)

This report is a report designed to show all the names, address, phone number, and the relationship of people the 3F interacts with (according to the newly designed database). Currently the Phonebook holds information about Suppliers, Subcontractors, Business Contacts, Lenders, Former Tenants, Current Tenants, and Owners of Potential Properties.

Rentals to Sell (Extra)

Rentals to Sell is a report that shows all properties that are "sale ready". Sale ready has previously been definied by 3F by properties that have finished being rehabilitated and have made more money from rent than they have for all of their repairs. The report shows all of the information on the property such as folio number, purchase price, possession time the amount of money that they have made from rent, and the amount of money that they have spent on repairs. Only properties that meet the criteria are shown.

Work-in-Progress to Finish Repairs (7)

This report shows all the work-in-progress properties that have not had improvements completed within 3 weeks. The report shows the date purchased, folio number, rehabilitation amount, days since the purchase, and purchase price.

Current Leases (5)

Current Leases shows all leases that are currently in effect. It shows the folio number of the rental property and the ID of the lease. It also shows the name of tenant and the amount of days they have until their lease is over.

Potential Properties (10)

This report shows all of the potential properties in the database. It shows the most important information about a potential property, such as the folio number, amount of bedrooms and bathrooms, square footage, lot size, how it was identified, asking price, and the current condition. The report also shows information about the owner of the potential property. Additionally, although we assumed that not all properties have a business contact, business contact is displayed in the report for those properties that do have business contacts.

Forms

There are five forms: Repair, Order Information, Lease, Property Violation, and Property Management. The forms have directions on them and bolded fields mean that they are required. Forms allow you to add one or more records to the select tables in the database.

How-To Use the Application

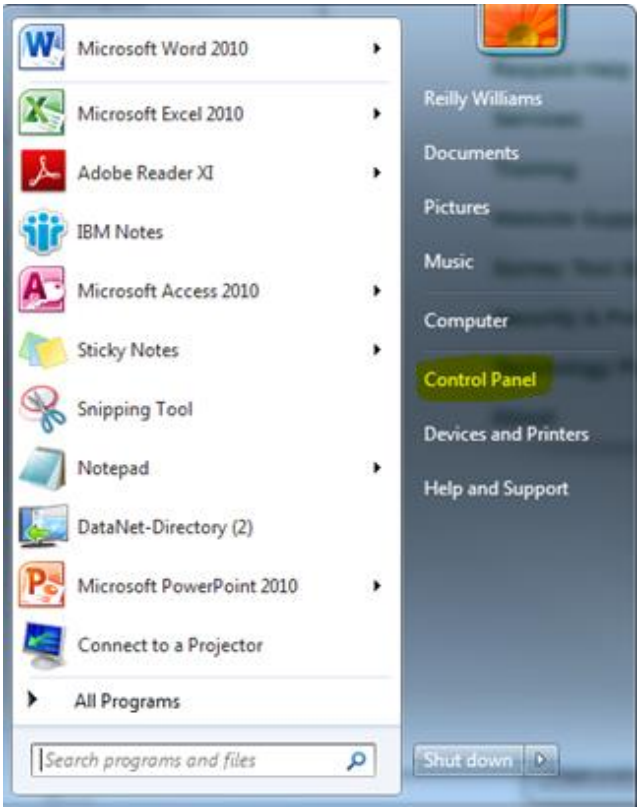
Create an OBDC Driver

To connect to the database to see reports and forms you must first create an ODBC driver on your computer and then link it to Microsoft Access.

The steps to create the ODBC driver are:

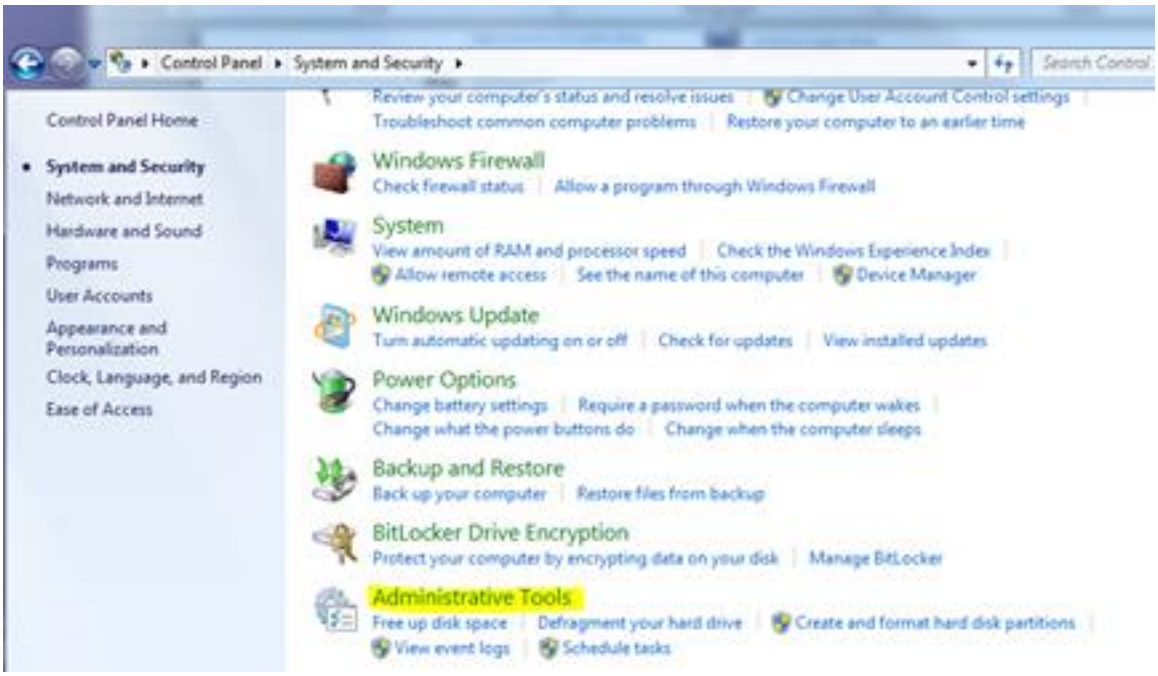
1. Open 'Control Panel' by clicking on the Windows icon on the bottom left hand of your computer

Then click Control Panel

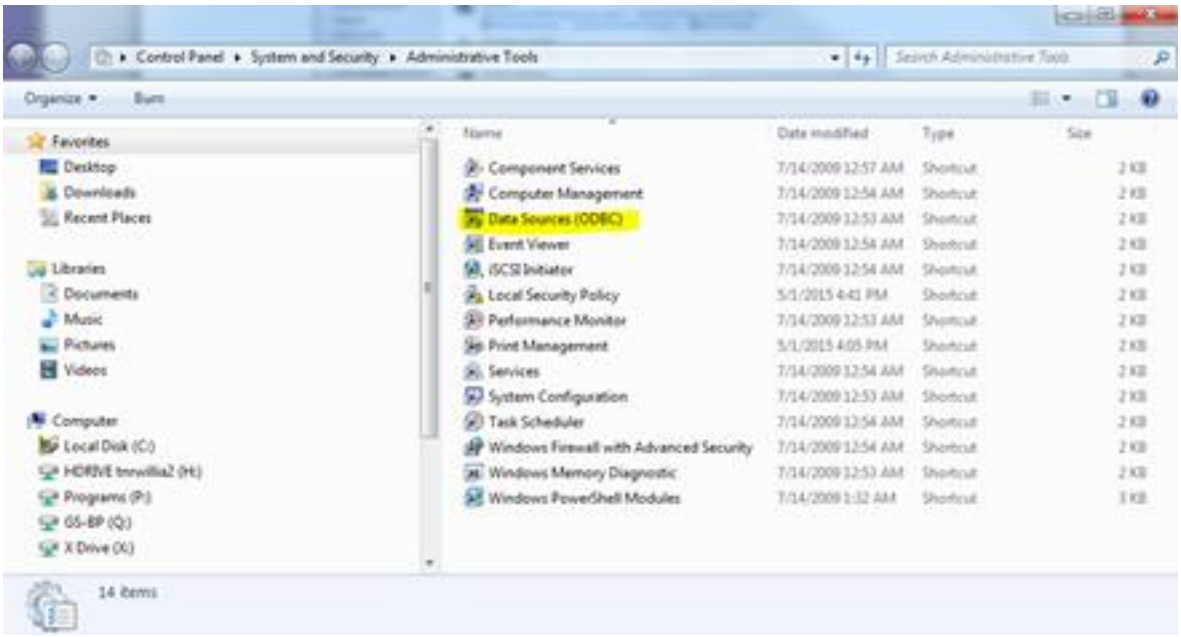


2. Go to 'System & Security'

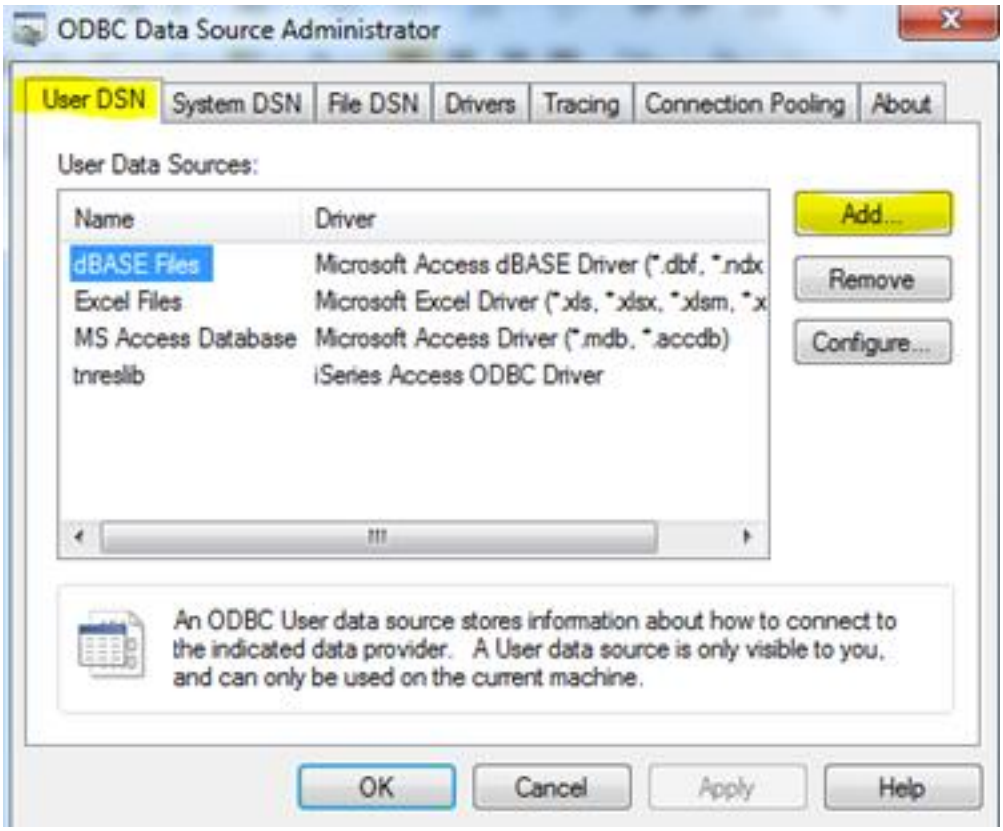
3. Click 'Administrative Tools'



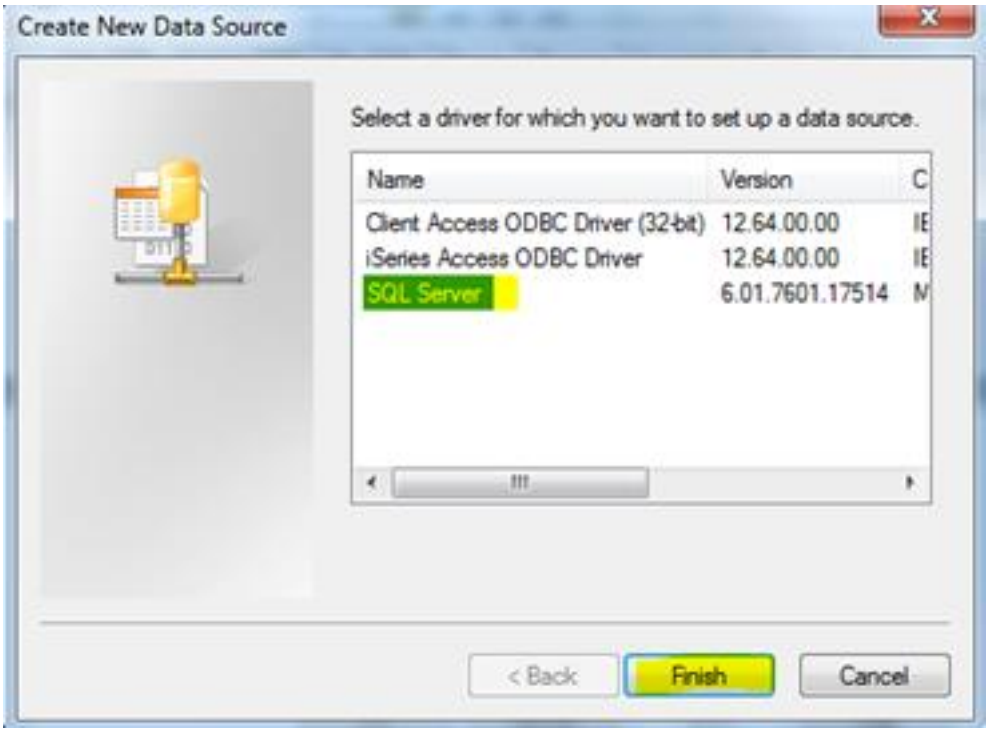
4. Open 'ODBC Data Sources (64 bit)'



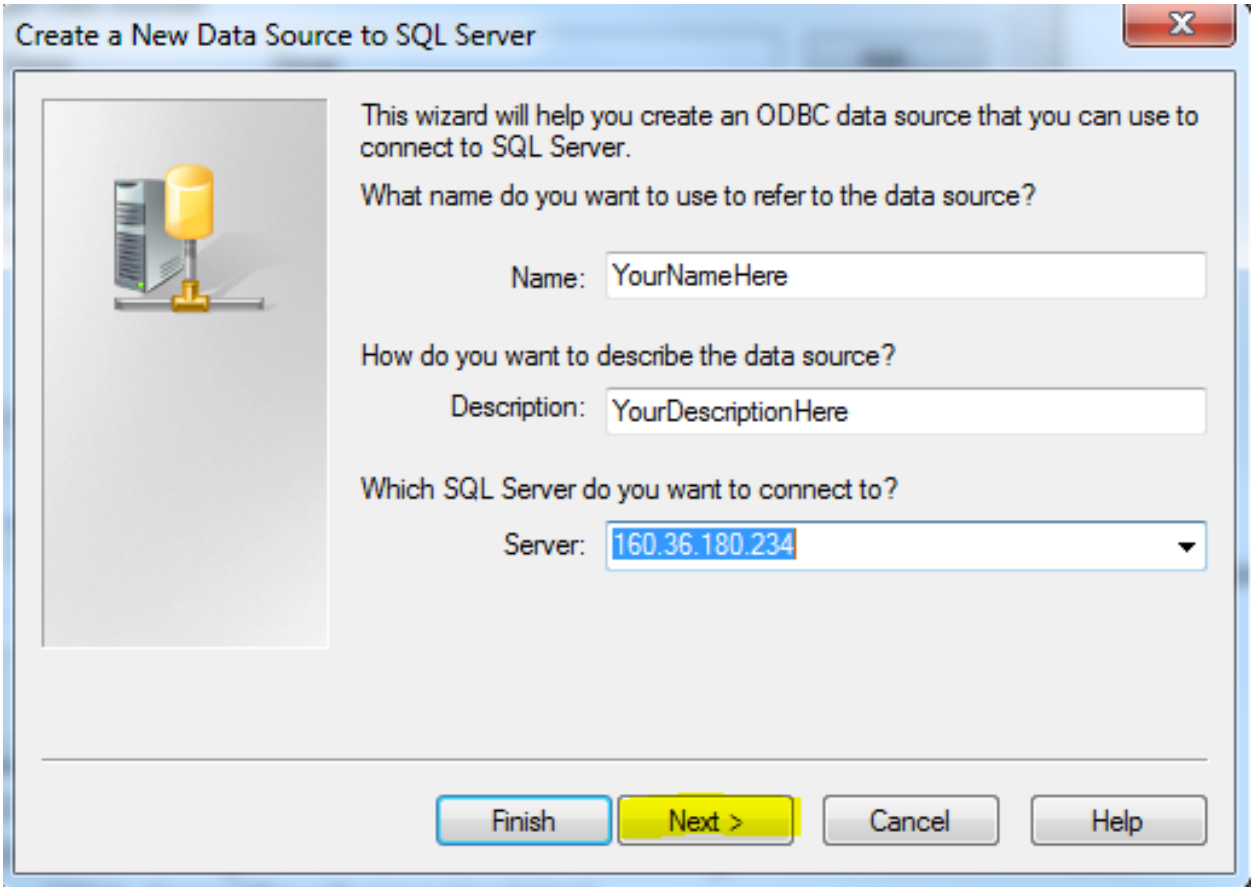
5. Navigate to the tab called ‘User DSN’ and click ‘Add’ on the right hand side



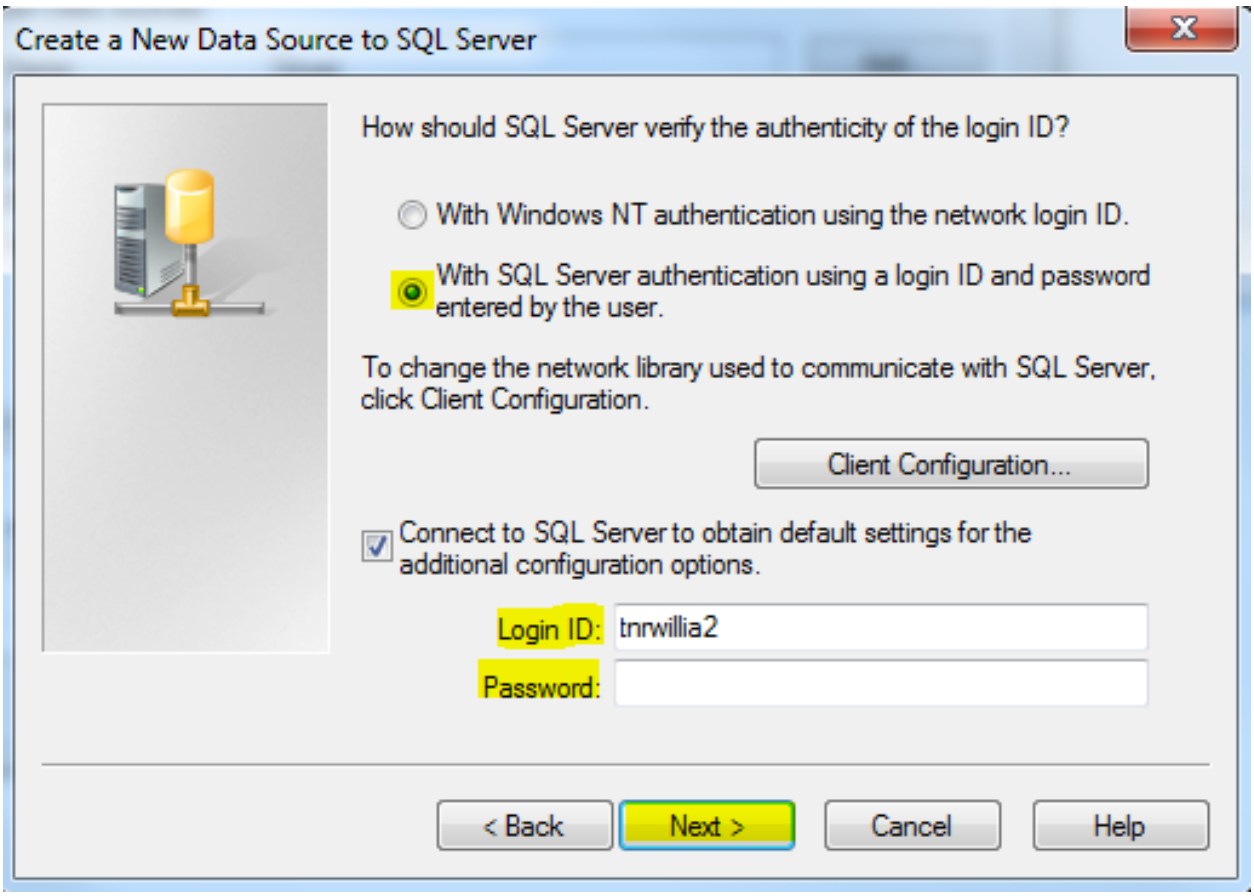
6. Select ‘SQL Server’ and click ‘Finish’



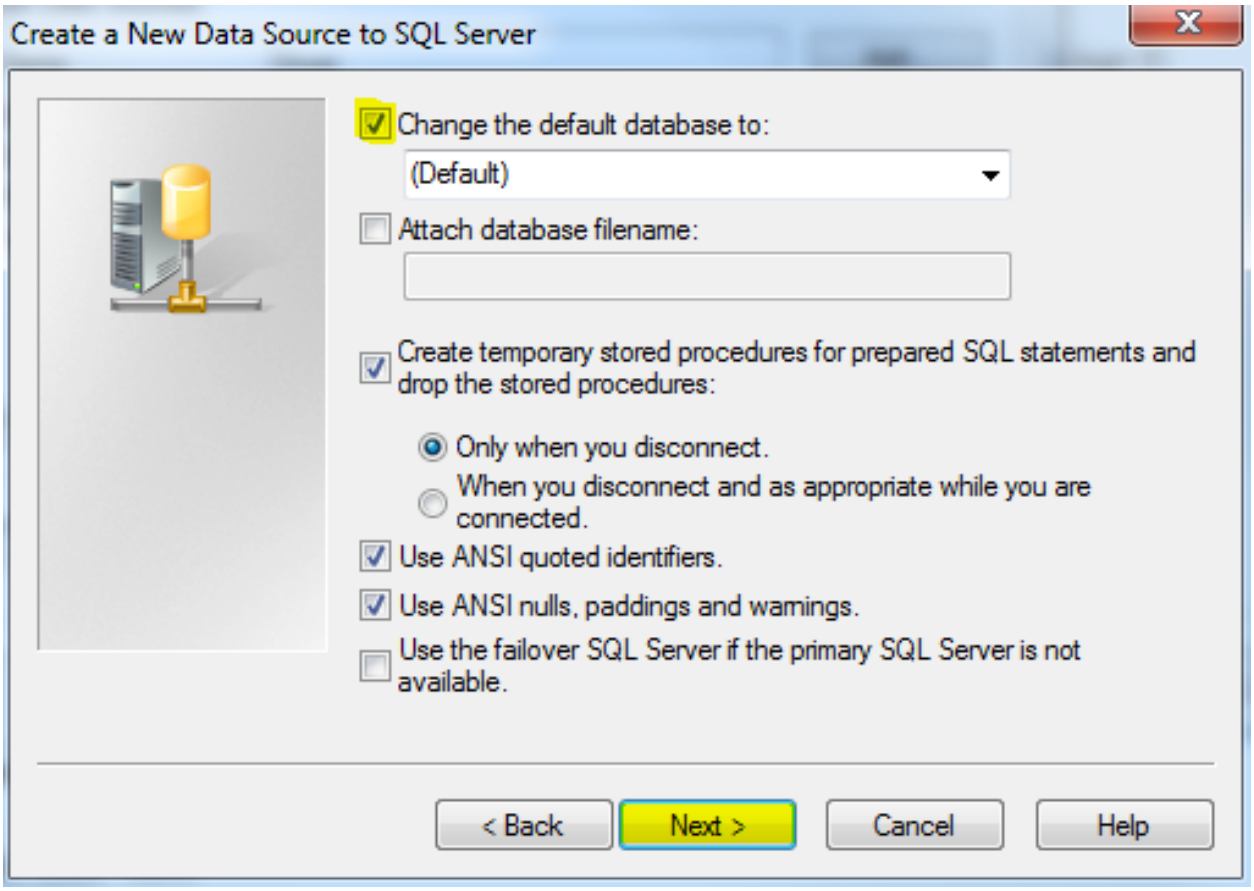
7. Choose a name and description for your ODBC connection
Enter the Server IP Address for the database server (160.36.180.234) in the third box called ‘Server’ and click ‘Next’



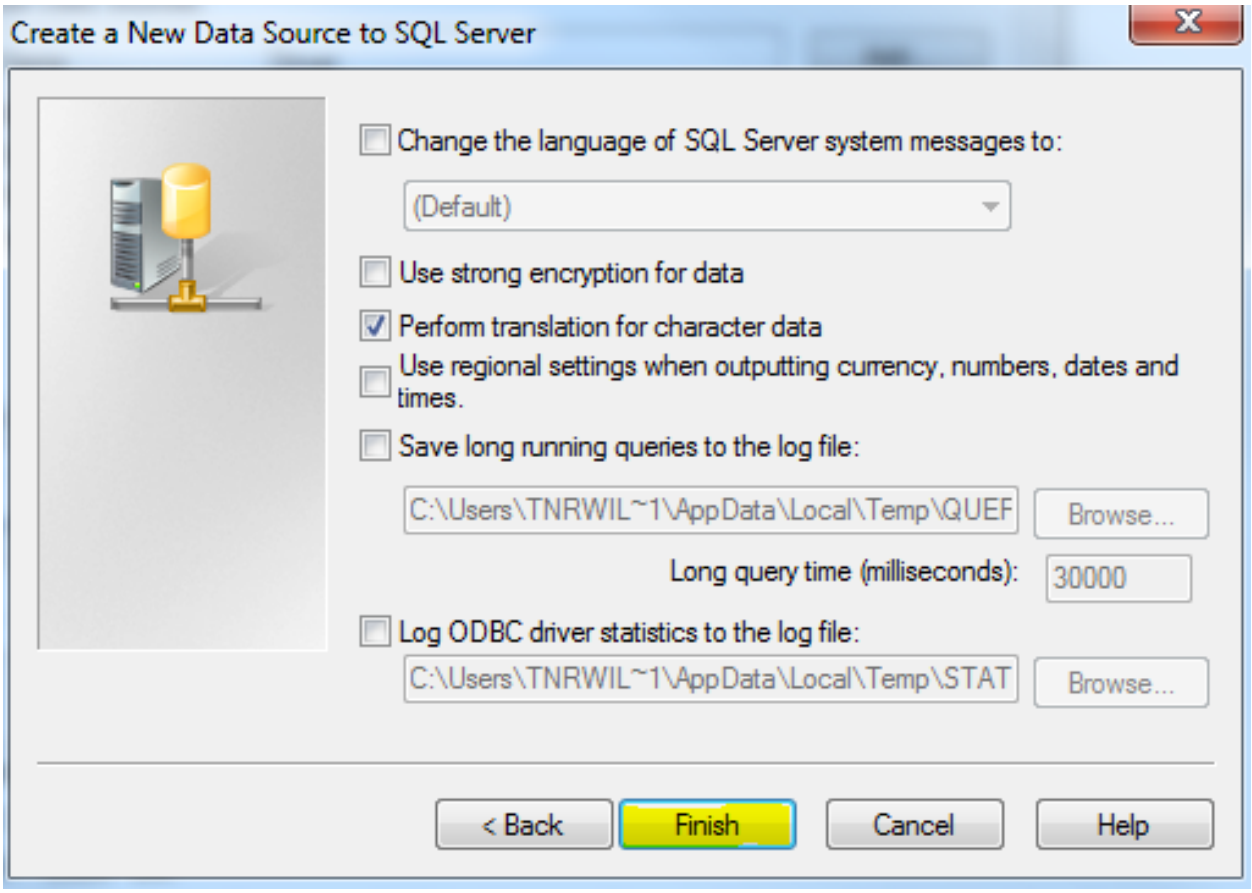
8. Choose 'SQL Server Authentication'
Enter your Server Login & Password
Click 'Next'



9. Select ‘Change the default database’ and change it to the relevant database (SP19_NoneOfYourBusinessAnalytics) and click ‘Next’



10. Leave all presets as is and click ‘Finish’



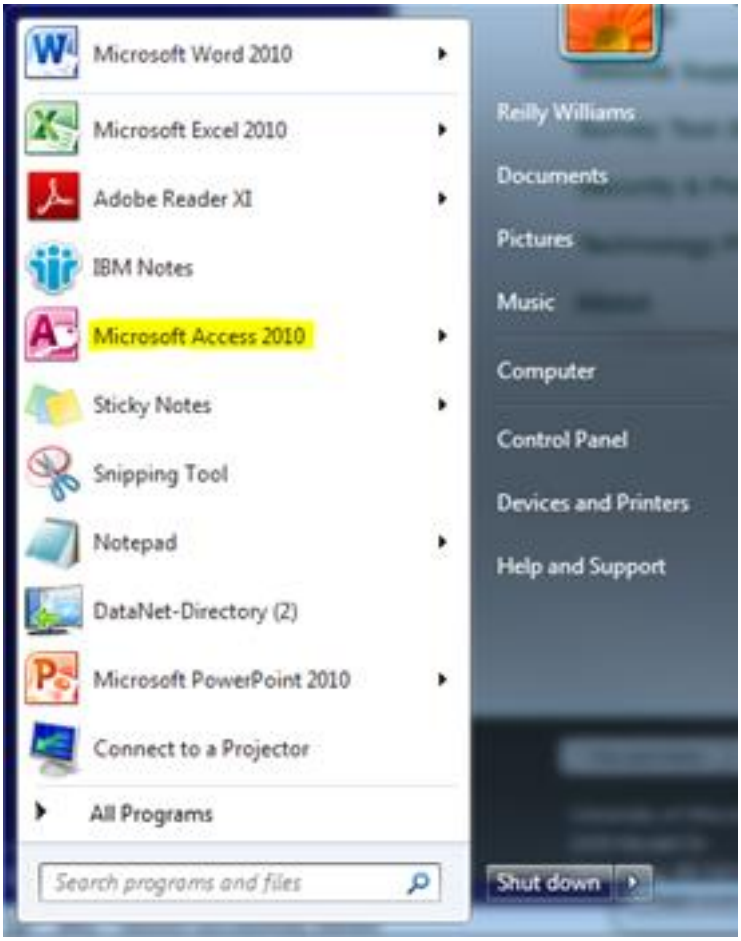
11. Click ‘Test Data Source’

12. Select ‘Ok’ to exit out of test box

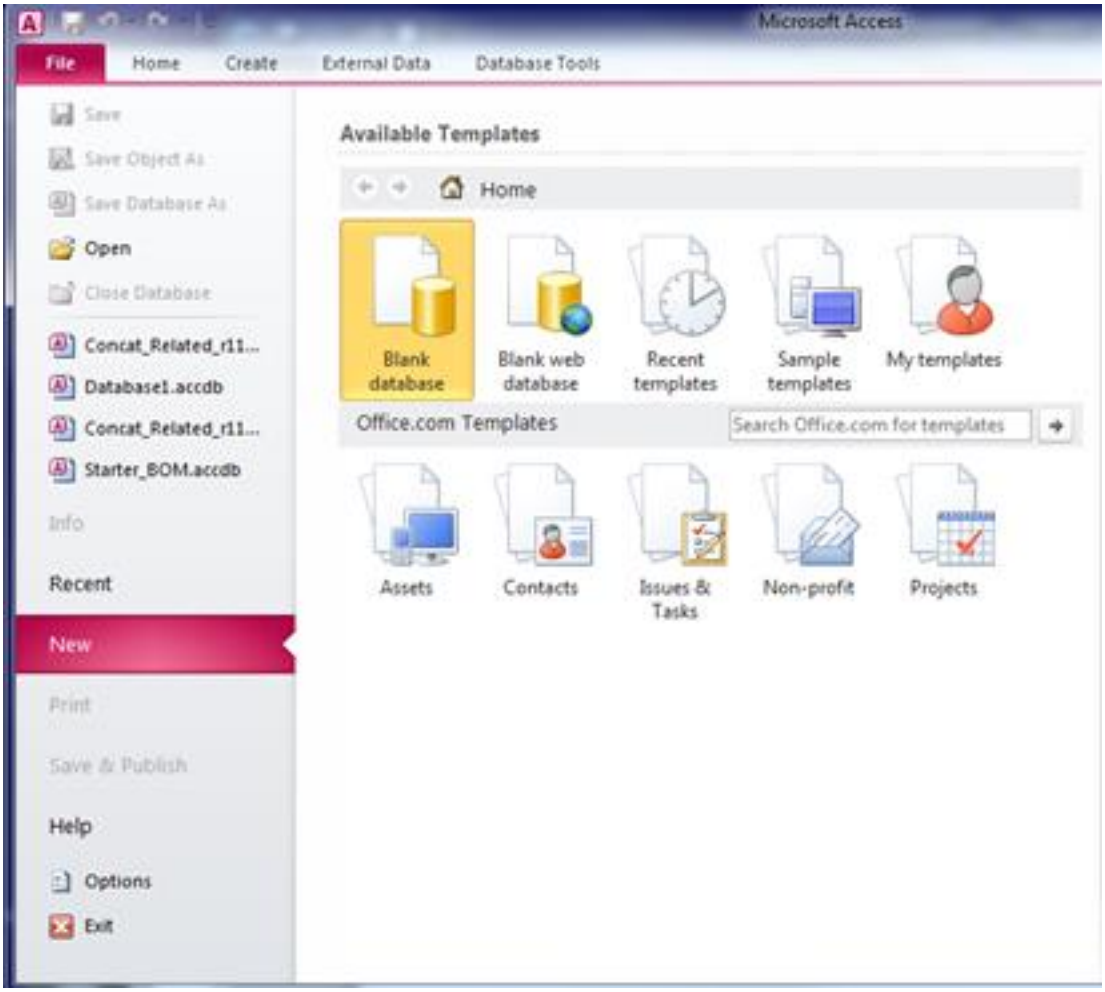
13. Select ‘Ok’ again to close ODBC Microsoft SQL Server Setup

Link the OBDC Driver to Access

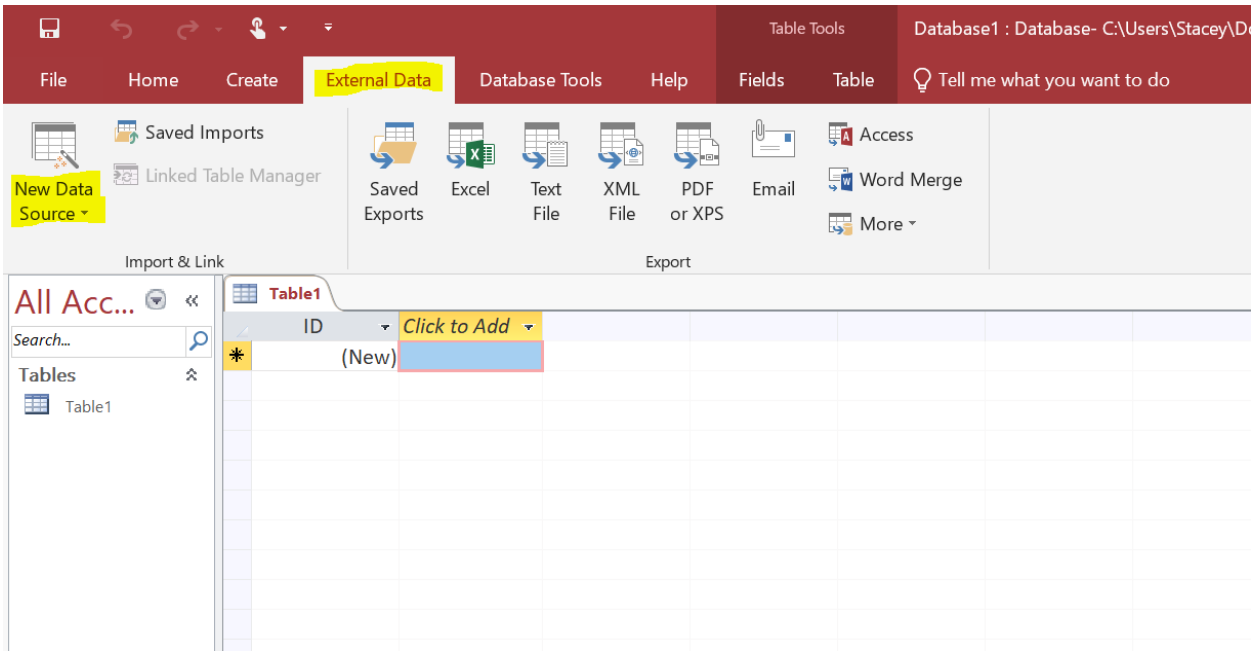
1. Open ‘Microsoft Access’



2. Select ‘Blank Database’ to open a new blank database



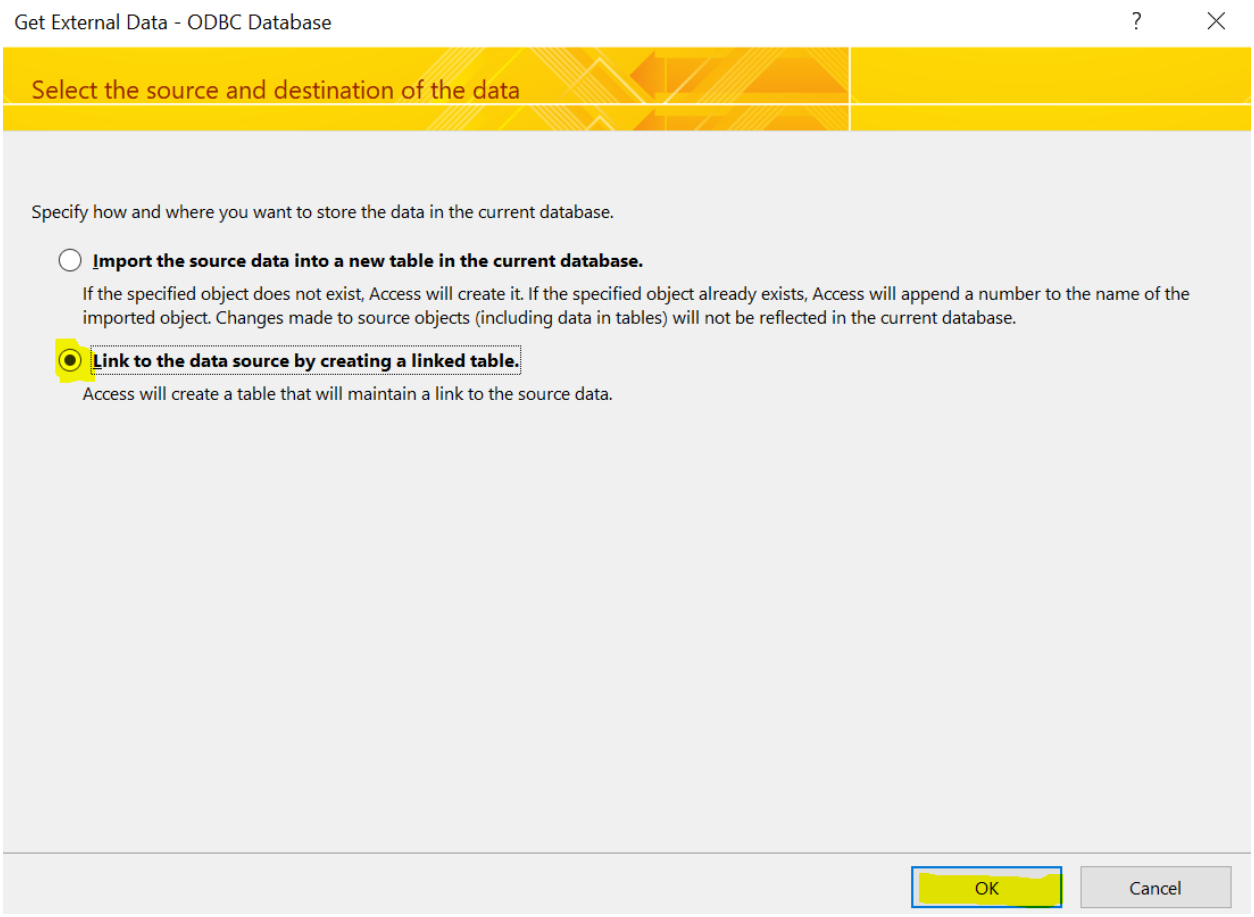
3. In the Ribbon click on the ‘External Data’ tab
And Click ‘New Data Source’ all the way on the left



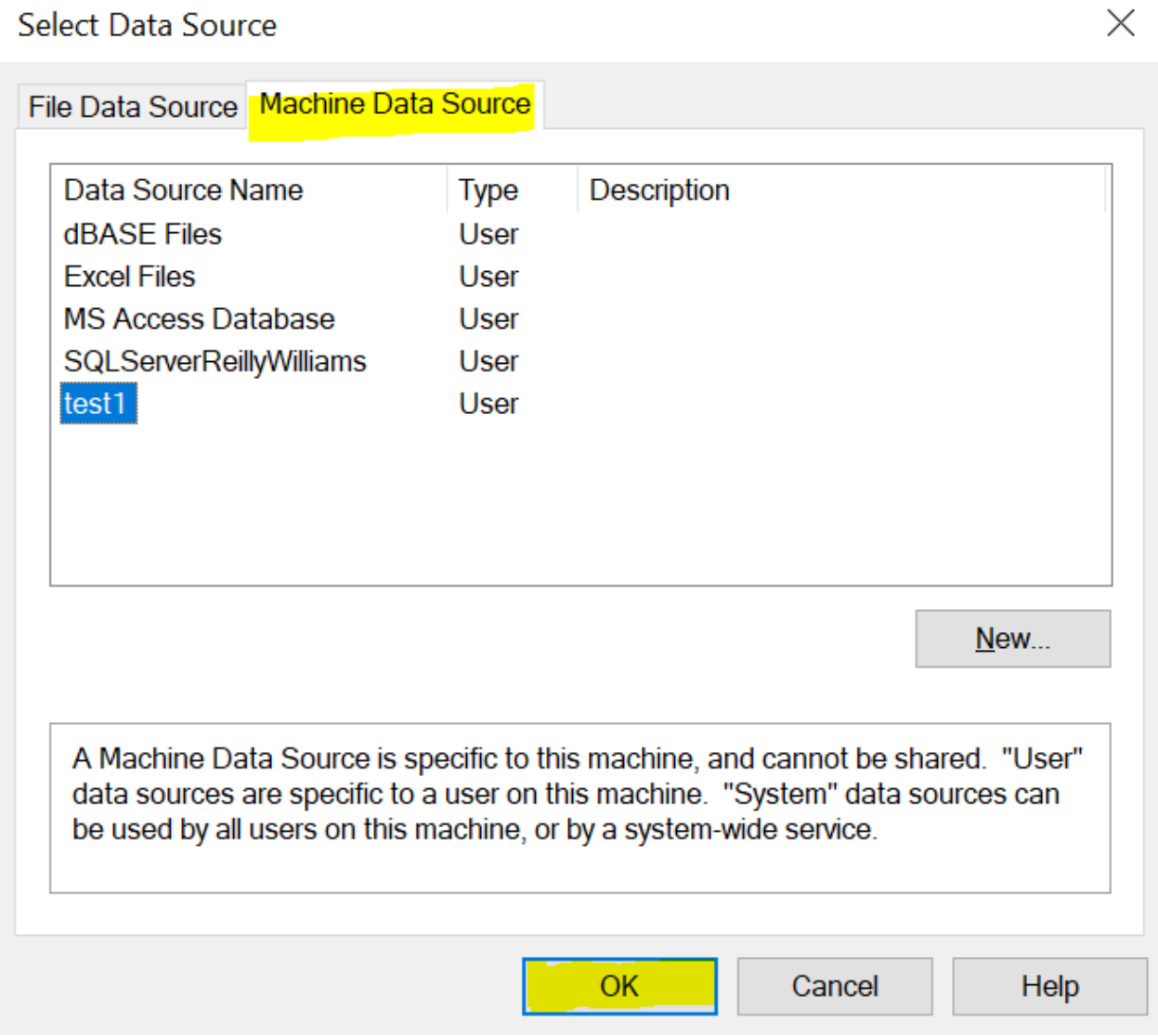
4. Hover over ‘From Other Sources’ at the bottom

5. Select the option that says ‘ODBC Database’

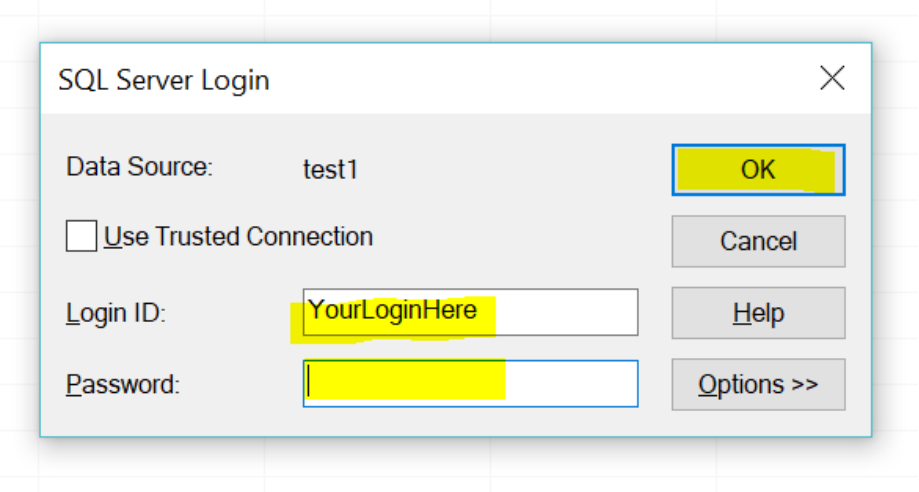
6. Selection the option that says ‘Link to the data source by creating a linked table’ and Click ‘Ok ‘



7. Navigate to the second tab in the resulting task box and click ‘Machine Data Source’ Under ‘Data Source Name’ select the name of the ODBC driver created in the back end steps and Click ‘OK’

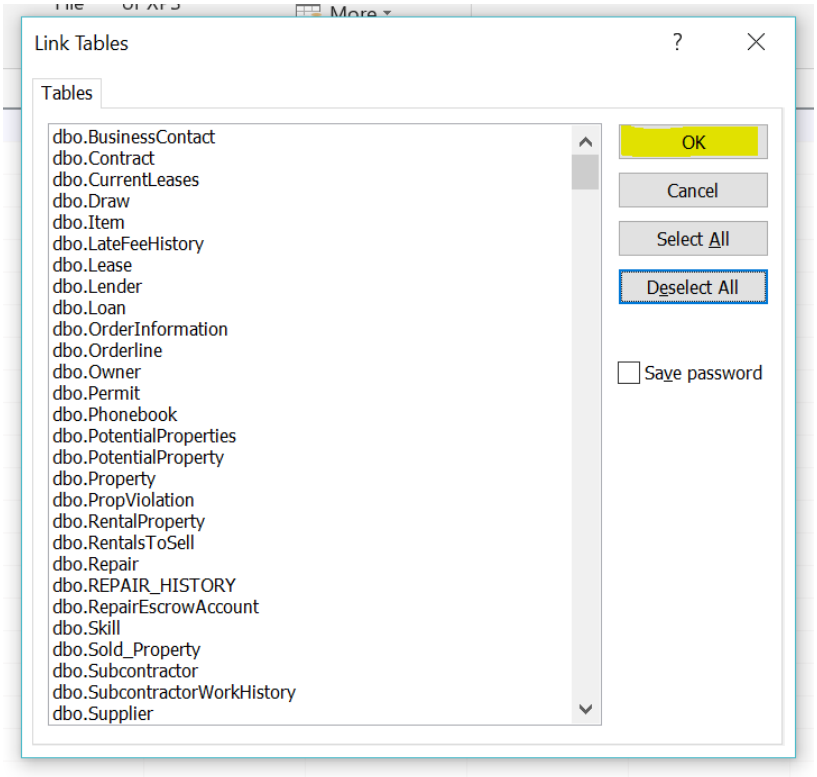


8. Enter your authentication
And Click 'Ok'



9. Click all of the tables you want to link to the user's computer

10. Select 'Ok '



11. You're Done!

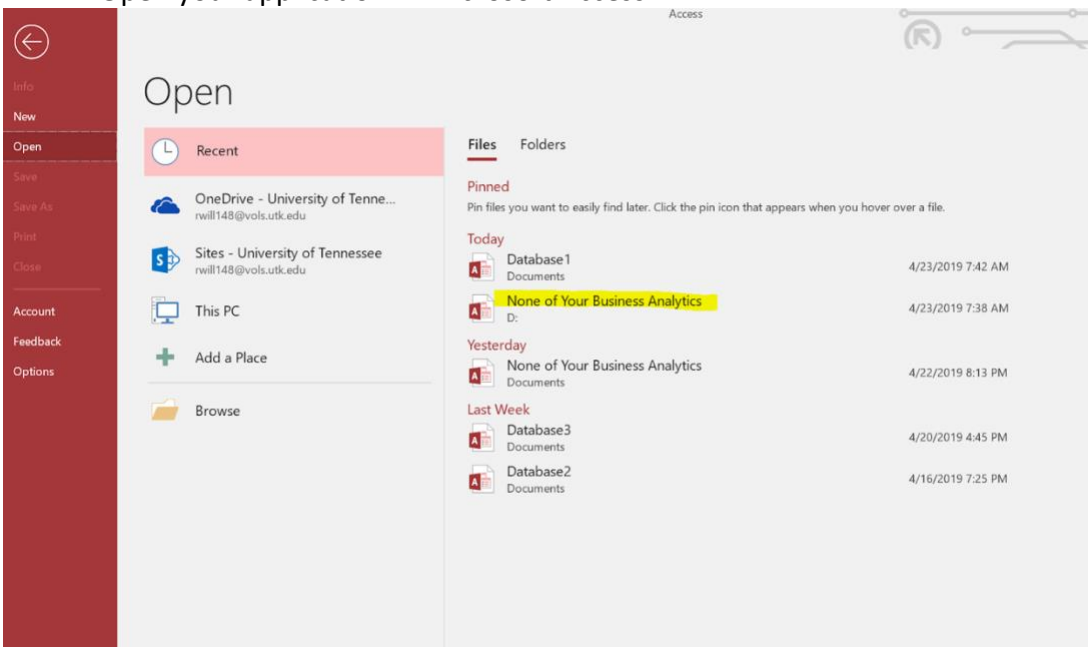
Using Reports in Access

Reports are answers to common business asked by 3F employees. They display information, and many include options to narrow down results by searching for specific parameters.

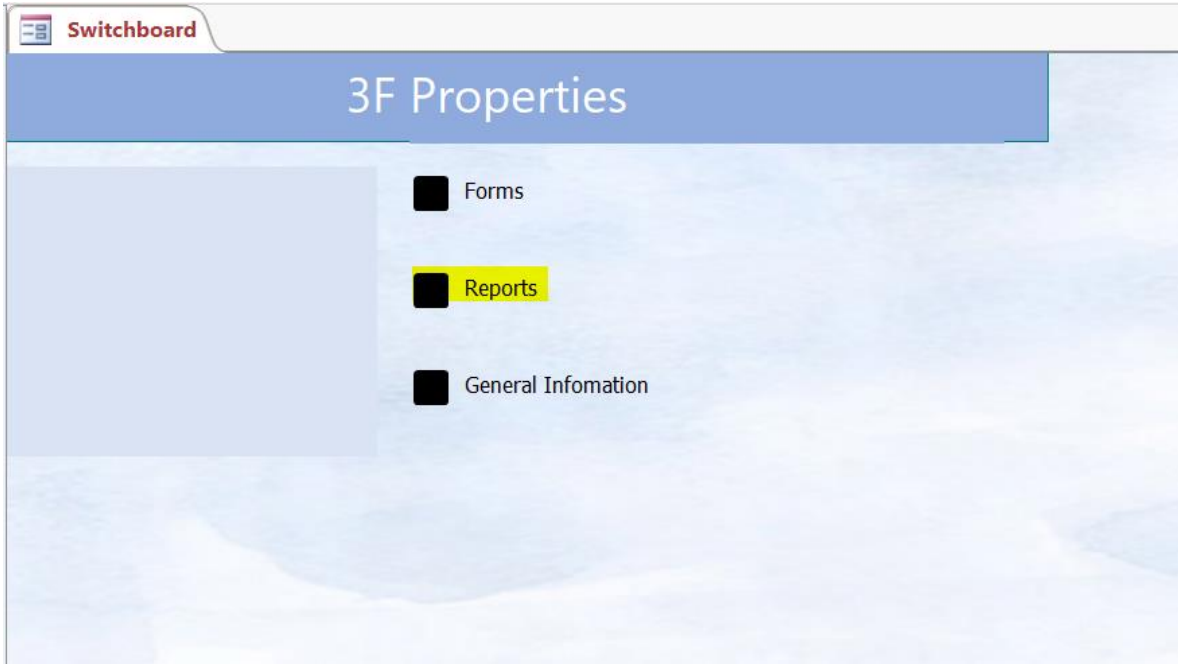
This application comes with several prepared forms for the convenience of use for 3F's employees. For a full list of included reports and their uses please see our *Query Documentation* section.

To use a Report:

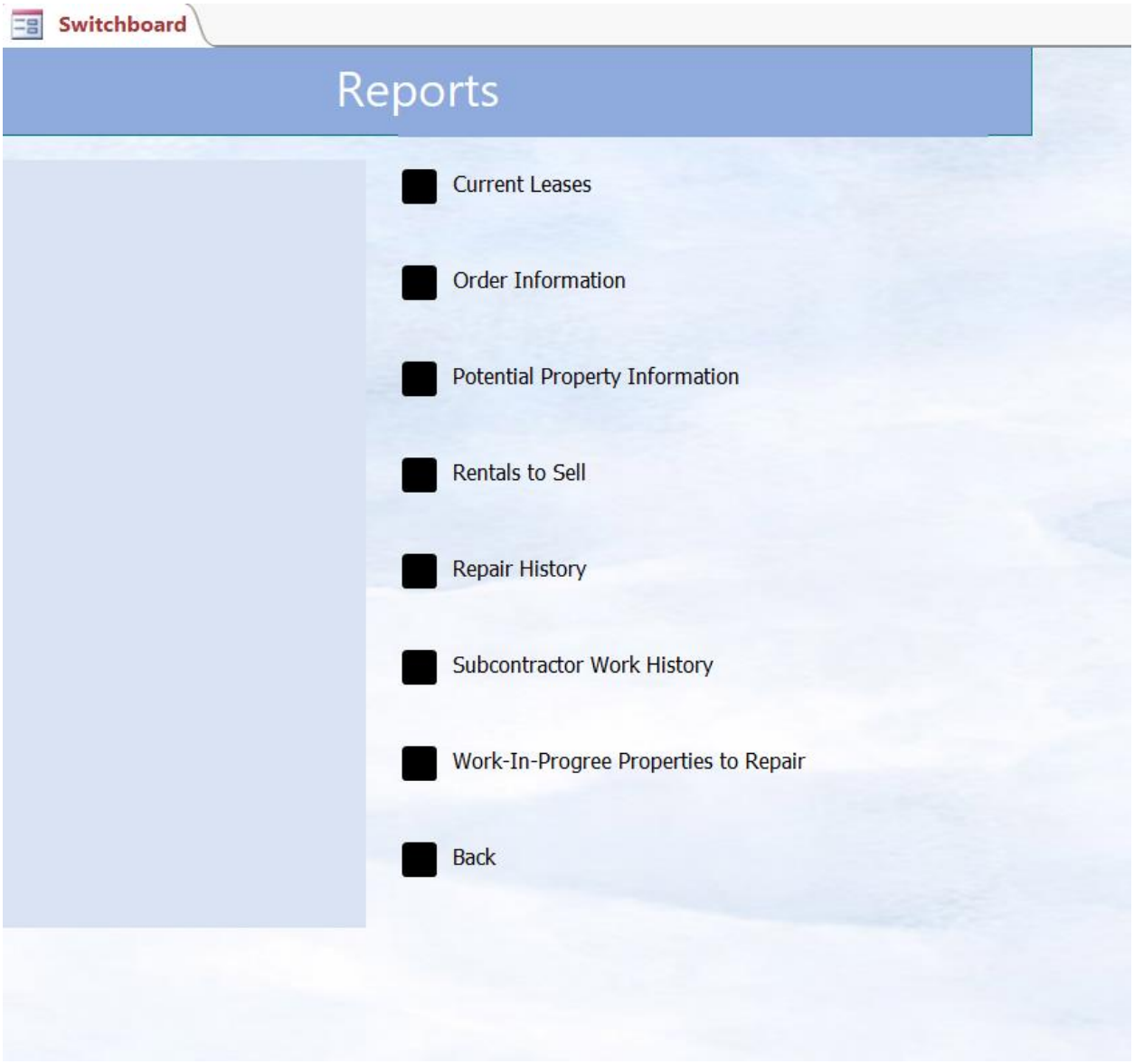
1. Open your application in Microsoft Access.



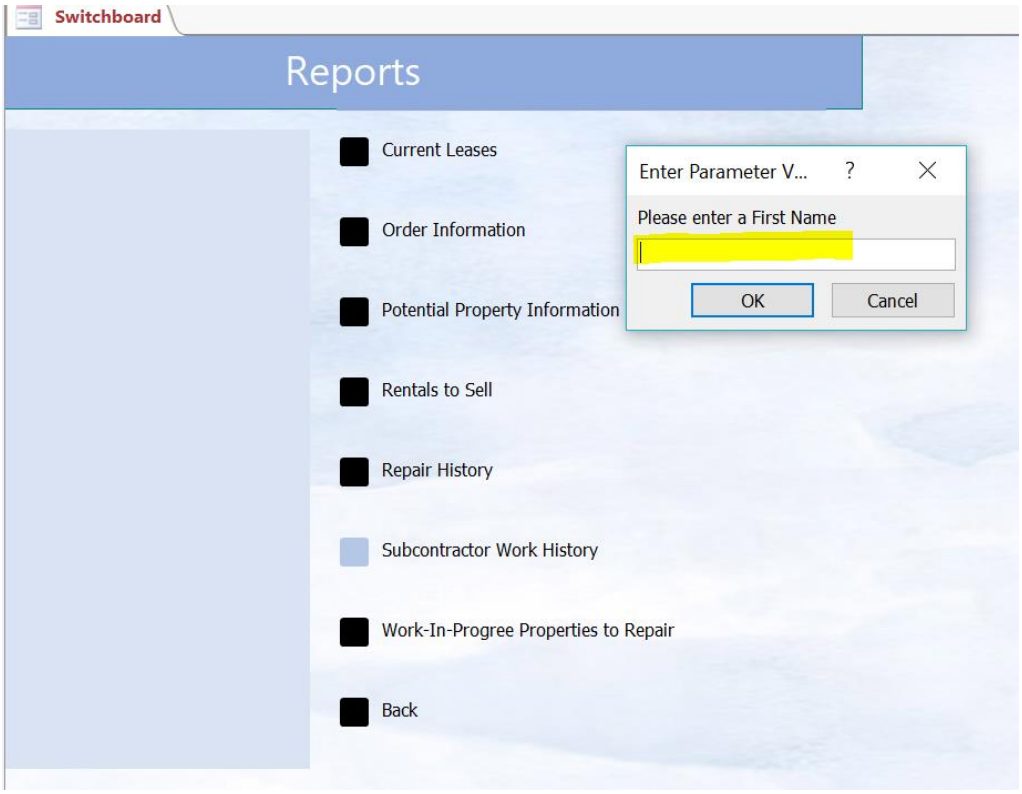
2. The database should open to the 3F Properties Switchboard.
3. On the main switchboard screen select "Reports"



4. Select the Report you wish to use and click on the button next to it to open it.



5. If prompted, enter the parameter information requested.



6. The Report should open and display all of the information that is needed to answer that business question.

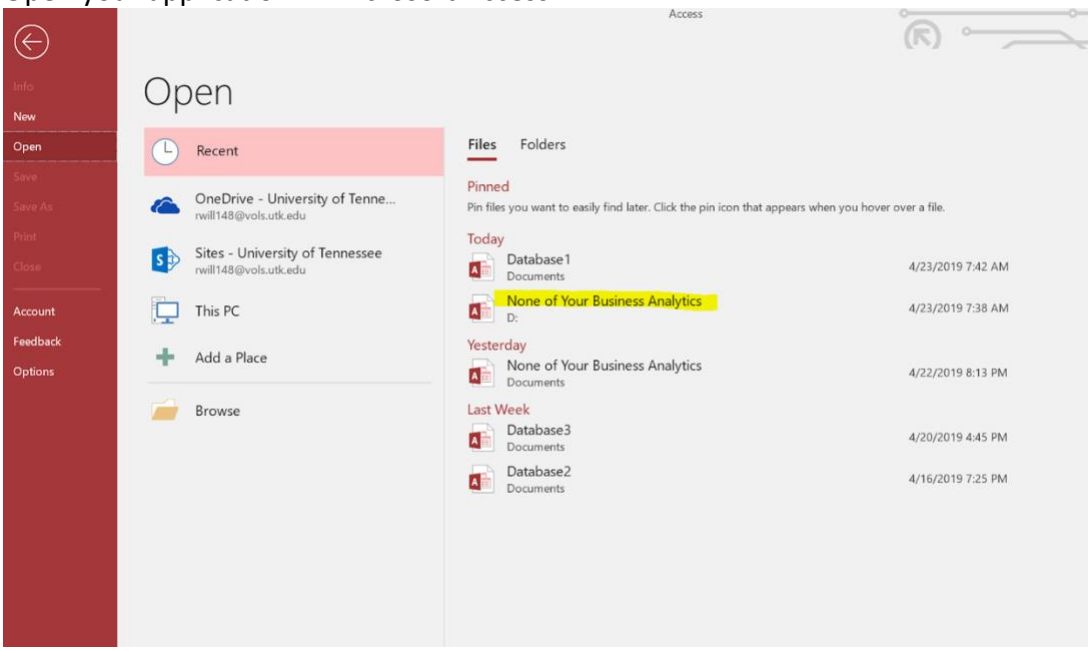
<u>To Print a Report:</u>

1. In the upper left hand side of Microsoft Access, click “File”
2. Once in File View select “Print” on the left hand side.
3. Select “Print Preview” to make sure the Report will print as desired.
4. When finished previewing, select “Exit Print Preview” in the ribbon on the right hand side.
5. Change any properties such as color or black and white printing as usual.
6. Click “Print” to print the Report.

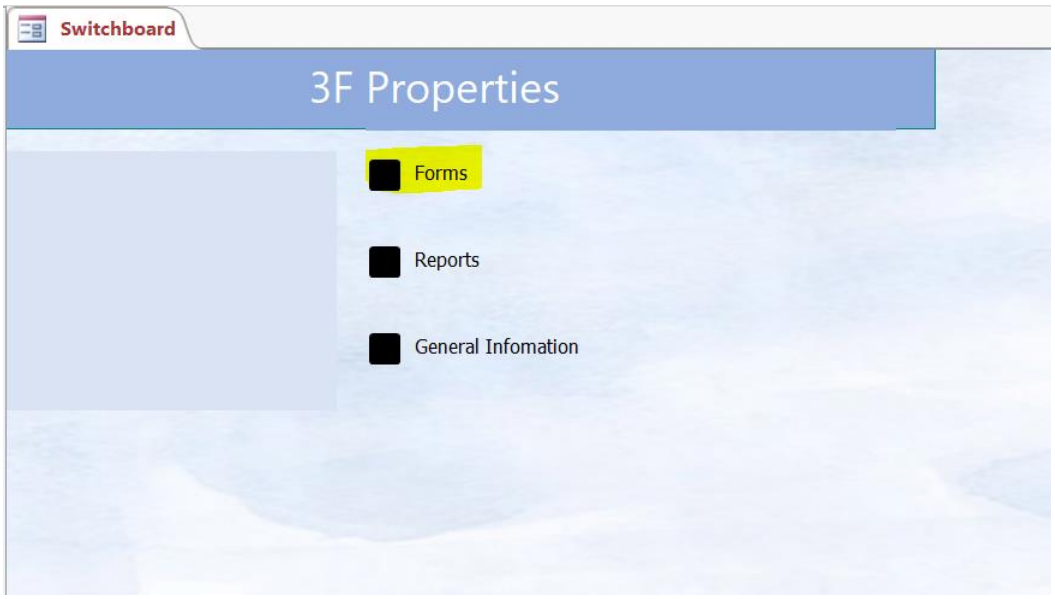
Using Forms in Access

Forms are how 3F employees can enter data into the 3F database about Repairs, Properties, Leases, or any other tables within the database.
This application is designed for employees to be able to enter data into specific forms based on their authorization, which is assigned at the department level within 3F. If you find you cannot access a form to enter information that you feel you should be authorized to enter, please contact your Information Technology associate for assistance.

To use a Form:
Open your application in Microsoft Access

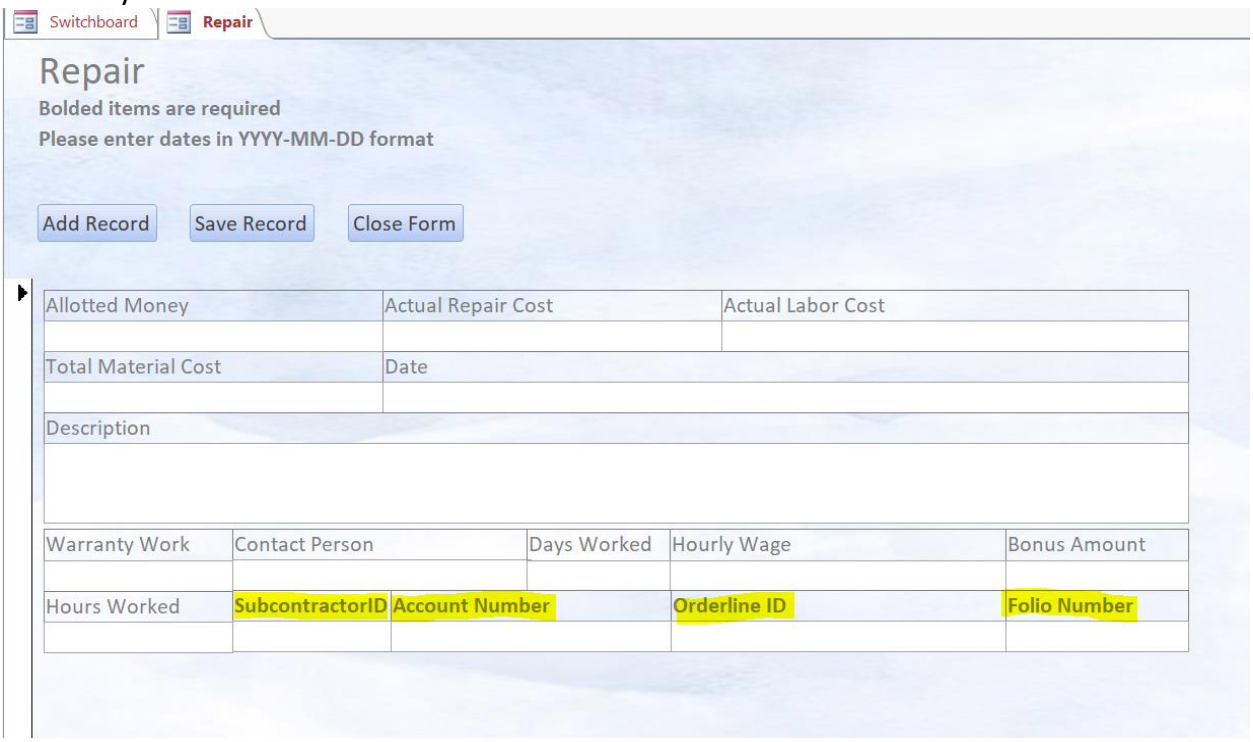


The database should open to the 3F Properties Switchboard.
On the main switchboard screen select “Forms”



Select the Form you wish to use.
Read all instructions under the Form title for information on how to format your input.

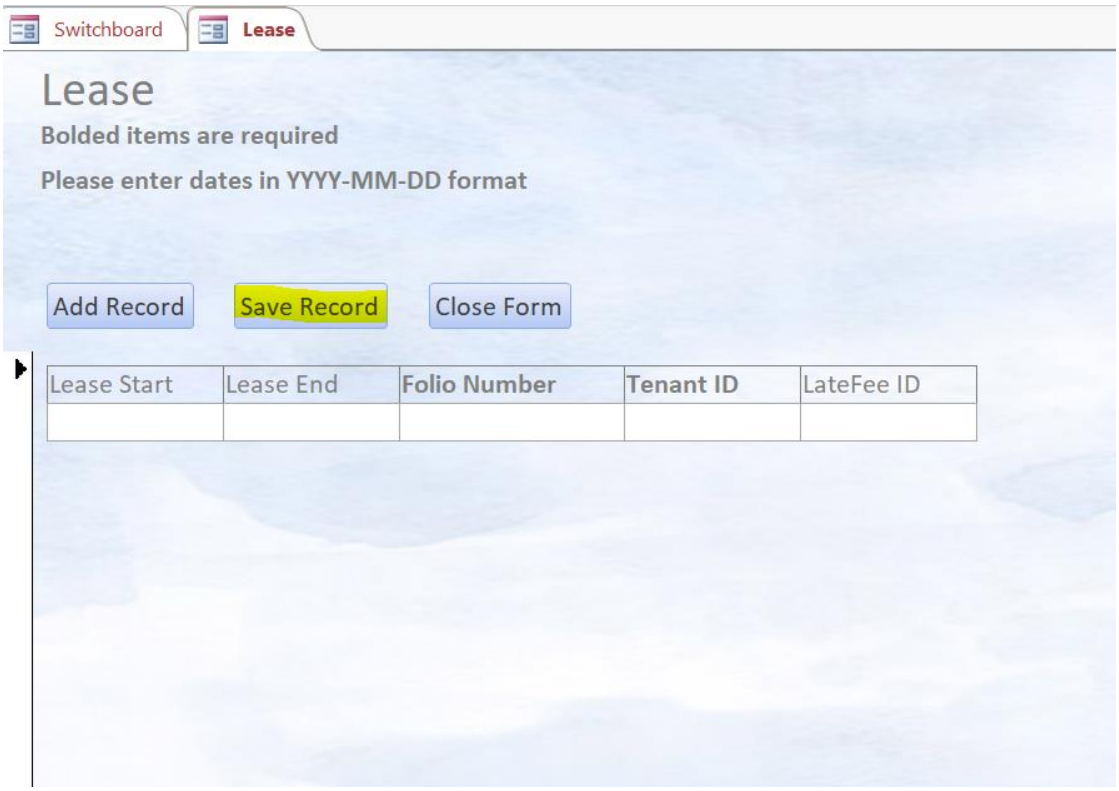
Input your data into the boxes, paying special attention to entering information into all bolded boxes. If you do not enter data into the bolded boxes the form will not work.



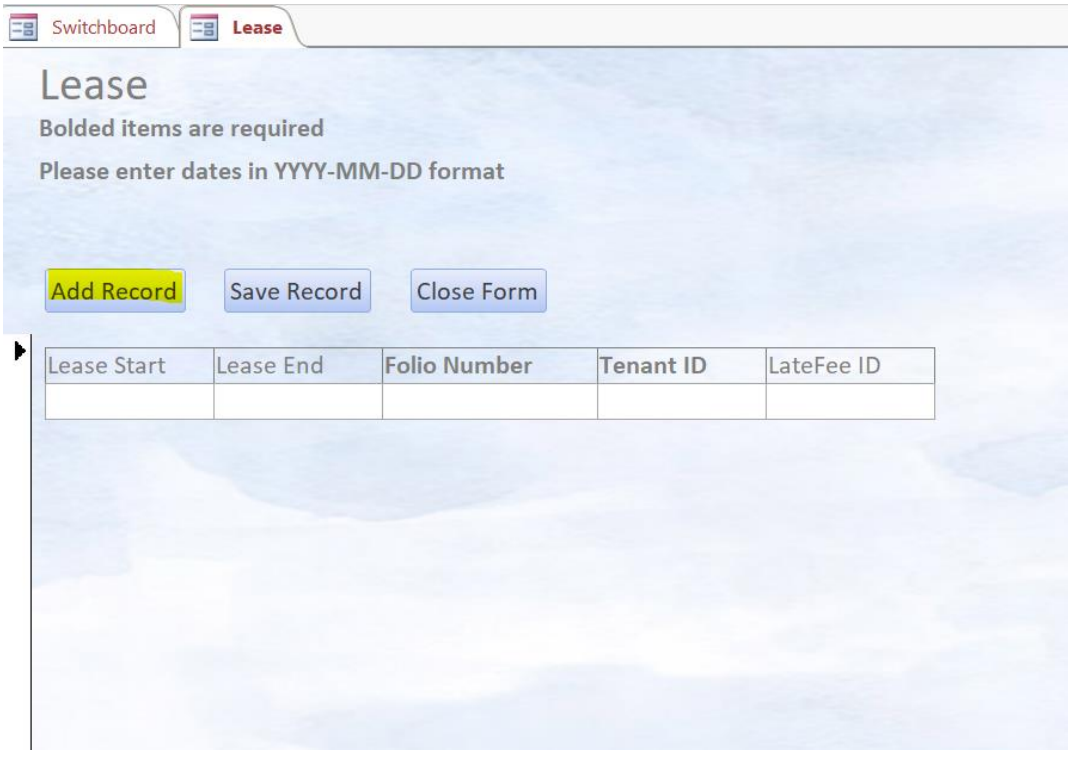
If you receive any warning messages, please contact your Information Technology associate for assistance.

If you are unsure what any of the fields in a Form mean, please consult the Data Dictionary in this document for further guidance.

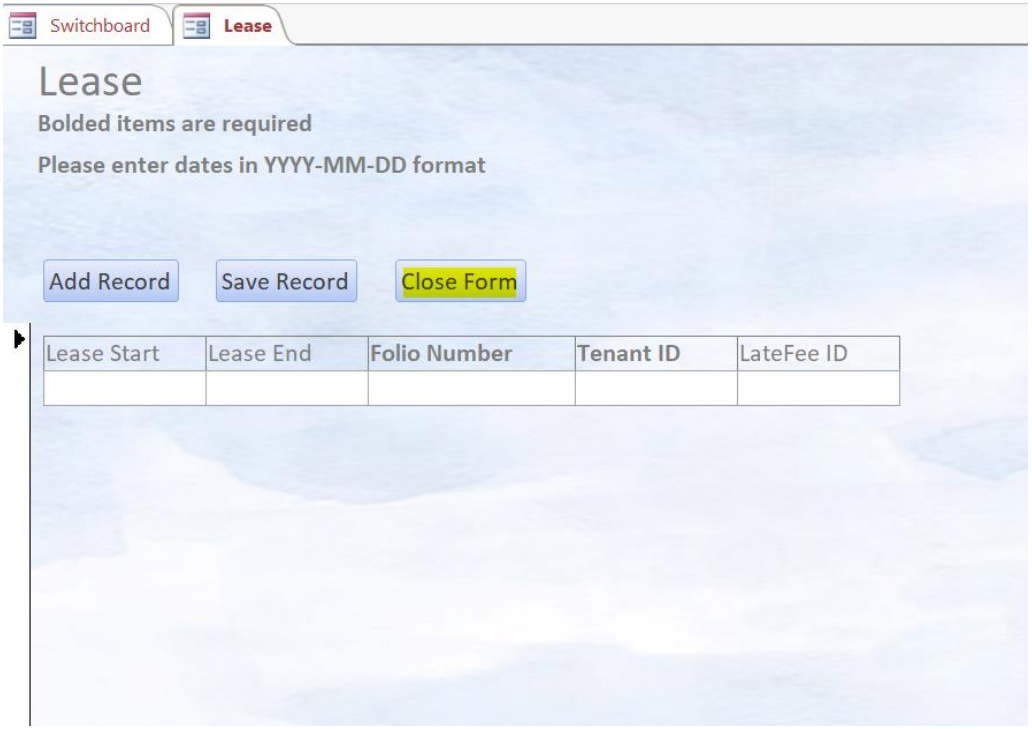
For longer forms, use the 'Save Record' button to save your progress.



When you are finished filling out all of the information in the form, click 'Add Record' to add the data to the 3F database.



Then click on 'Close Form' to close the form.



Navigate the Switchboard

1. When you first open Access to view the application you will be brought to the 3F Properties Switchboard.
2. The Switchboard has 3 Main components:
    1. Forms
    2. Reports
    3. General Information
3. The Forms sections contains:
   All forms used to enter data into the 3F Properties database:

    i. Repair
    ii. Property Management
    iii. Property Violation
    iv. Lease
    v. Order

4. The Reports section contains:
   All pre-designed reports used by 3F Properties to answer common business questions:
    i. Order Information
    ii. Current Leases

iii. Potential Properties Information
iv. Rentals to Sell
v. Repair History
vi. Work-In-Progress Properties to Repair

For a detailed description of the business question each of these reports answers, please see the Query Documentation section of this document.

5. The General Information section contains:
- Several reports used by 3F Properties that aren't tied to any specific business question:
    i. Phonebook
    ii. Yearly Spend
6. To Navigate using the 3F Properties Switchboard click on any of the button located next to an option.
7. If you need to return to the previous screen, click 'Back' to return to the main Switchboard

Appendix of Sample Reports

Repair History (6)

Repair History

Repair ID			
3			
Description			
Patch Holes in Walls			
Date	Total Labor Cost	Total Material Cost	Total Cost
2018-12-15	$105.00	$75.00	$180.00
Allotted Money	Amount Over Budget	Folio Number	Current Property Type
$330.00	$150.00	10011	WIP
Purchase Date	Purchase Price	Complete Improvements	
2018-12-15	$200,000.00	1	

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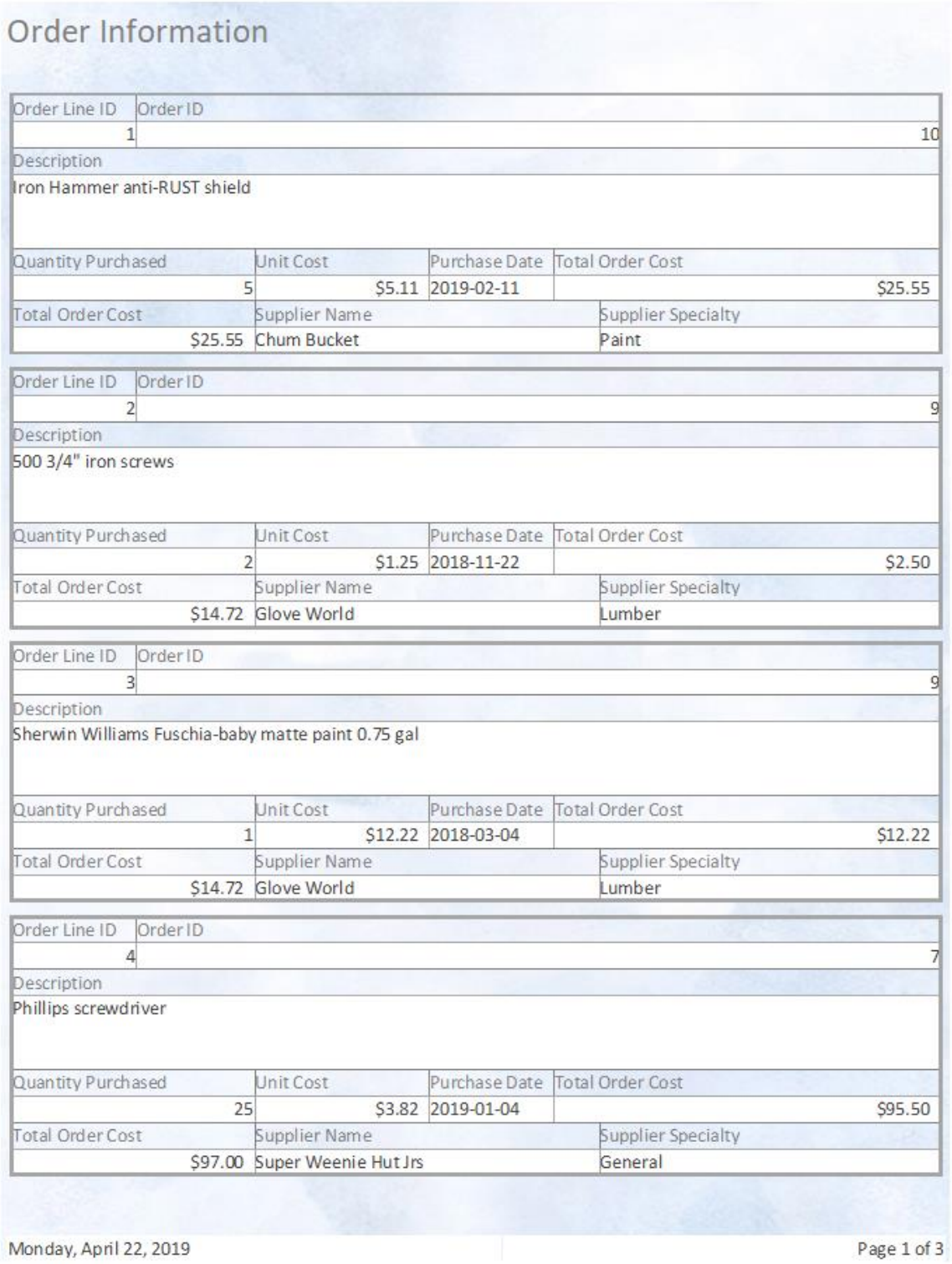
Order Information (9)



Order Information

Order Line ID	Order ID
1	10

Description
Iron Hammer anti-RUST shield

Quantity Purchased	Unit Cost	Purchase Date	Total Order Cost
5	$5.11	2019-02-11	$25.55

Total Order Cost	Supplier Name	Supplier Specialty
$25.55	Chum Bucket	Paint

Order Line ID	Order ID
2	9

Description
500 3/4" iron screws

Quantity Purchased	Unit Cost	Purchase Date	Total Order Cost
2	$1.25	2018-11-22	$2.50

Total Order Cost	Supplier Name	Supplier Specialty
$14.72	Glove World	Lumber

Order Line ID	Order ID
3	9

Description
Sherwin Williams Fuschia-baby matte paint 0.75 gal

Quantity Purchased	Unit Cost	Purchase Date	Total Order Cost
1	$12.22	2018-03-04	$12.22

Total Order Cost	Supplier Name	Supplier Specialty
$14.72	Glove World	Lumber

Order Line ID	Order ID
4	7

Description
Phillips screwdriver

Quantity Purchased	Unit Cost	Purchase Date	Total Order Cost
25	$3.82	2019-01-04	$95.50

Total Order Cost	Supplier Name	Supplier Specialty
$97.00	Super Weenie Hut Jrs	General

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Work-in-Progress Properties to Finish Repairs (7)

WIP Properties to Repair

Folio Number	Date Purchased	Days Since Purchase	Purchase Price	Rehabilitation Amount
10014	2019-01-11	101	$150,000.00	$105,000.00

Folio Number	Date Purchased	Days Since Purchase	Purchase Price	Rehabilitation Amount
10015	2019-01-15	97	$105,000.00	$115,000.00

Folio Number	Date Purchased	Days Since Purchase	Purchase Price	Rehabilitation Amount
10017	2019-02-19	62	$175,000.00	$110,000.00

Folio Number	Date Purchased	Days Since Purchase	Purchase Price	Rehabilitation Amount
10020	2018-03-19	399	$189,000.00	$100,500.00

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Current Leases (5)

Current Leases

Days Until Lease Ends	Folio Number	LeaseID	Tenant ID	Tenant Full Name
37	10034	4	4	Roger Bumpass

Days Until Lease Ends	Folio Number	LeaseID	Tenant ID	Tenant Full Name
38	10012	11	12	Paper Bones

Days Until Lease Ends	Folio Number	LeaseID	Tenant ID	Tenant Full Name
67	10036	6	6	Mr. Lawrence

Days Until Lease Ends	Folio Number	LeaseID	Tenant ID	Tenant Full Name
68	10016	13	14	Squirrel Numerodos

Days Until Lease Ends	Folio Number	LeaseID	Tenant ID	Tenant Full Name
98	10037	7	7	Carolyn Lawrence

Days Until Lease Ends	Folio Number	LeaseID	Tenant ID	Tenant Full Name
129	10039	9	9	Mary Jo Cattlet

Days Until Lease Ends	Folio Number	LeaseID	Tenant ID	Tenant Full Name
138	10013	12	13	Krusty Busstop

Days Until Lease Ends	Folio Number	LeaseID	Tenant ID	Tenant Full Name
251	10031	1	11	Bob McBob

Days Until Lease Ends	Folio Number	LeaseID	Tenant ID	Tenant Full Name
251	10035	5	5	Jill Talley

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Potential Properties (10)

Potential Properties Information

Folio Number	Bath Number	Bedroom Number	Square Footage	Lot Size
10041	2	3	6954	43560

How was the Property Identified?
Real Estate Professional

Exit Strategy
Wholesale

Asking Price	Condition	Owner Name
$235,833.84	Fair	Sandy Cheeks

Business Contact Name	Business Contact Office Phone
Johnny Elaine	9111199191

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Yearly Spend (Extra)

Phonebook (Extra)

Phonebook

Name	Address	Phone	Relationship
Alaskan Bullworm		8861978463	Former Tenant
Barnacle Boy	44 Retirement Avenue Sandy Shoals, HI 13000	1017677671	Subcontractor
Barnacle Cousin		8169115851	Former Tenant
Bill Fagerbakke		8881523678	Former Tenant
Bubble Bass	79 Villianry Street Evilville, CA 90210	7021001000	Subcontractor
Carolyn Lawrence	Kelp Lane Honolulu, HI 40654	8981239894	Current Tenant
Chum Bucket	12 Chum Lane Bikini Bottom, HI 12345	1012334455	Supplier
Clancy Brown		8781245673	Former Tenant
Craig Mammalton	1293 Suntan Beach Honolulu, HI 96706	2223312341	Business Contact
Dee Bradley Baker		8984788956	Former Tenant
Dirty Bubble	4970 Pineapple Lane Bikini Bottom, HI 12345	9994215648	Lender
Dirty Bubble	78 Villianry Street Evilville, CA 90210	7026661111	Subcontractor
Eugene Krabs	3451 Anchor Way Bikini Bottom, HI 13245	1015559090	Owner
Flying Dutchman	4124 Flying Dutchman St Honolulu, HI 96704	1111441234	Business Contact
Flying Dutchman	4370 Broken Boat Row Los Angeles, CA 90210	7029994444	Subcontractor
Gary Squarepants	123 Pineapple Lane Bikini Bottom, HI 12345	1015562121	Owner
Glove World	7 Amusement Street Bikini Bottom, HI 12346	1014235187	Supplier
Horace Whopper	5900 Sun Street Los Angeles, CA 67924	4446789876	Lender
Jelly Fish	999 Jellyfish Fields Honolulu, HI 96705	2222214321	Business Contact
Jill Talley	High Rise Boulevard Honolulu, HI 40871	8889996666	Current Tenant
Johnny Elaine	11 Newsroom Street Honolulu, HI 96701	1111221234	Business Contact
Judge Stickleback	2211 Texas Street Bikini Bottom, HI 13245	9995674532	Lender
Karen Plankton	12 Chum Lane Bikini Bottom, CA 90210	7026671111	Subcontractor
Kelpshake	1290 Tasty Road Bikini Bottom, HI 12346	1019670505	Supplier
King Neptune	1 King Court Atlantis, GA 65000	8655555555	Subcontractor
Krusty Busstop	Chum Lane Honolulu, HI 12346	7941245997	Current Tenant
Krusty Krab	831 Bottom Feeder Lane Bikini Bottom, HI 12346	1014567890	Supplier
Larry the Lobster	4621 Buff Man Lane Bikini Bottom, HI 12345	1014232842	Subcontractor

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Rentals to Sell (Extra)

Rentals to Sell

Folio Number	Total Amount Rent	Total Amount of Repairs	Possession Time	Purchase Price
10012	$8,316.00	$380.00	121	$100,000.00
10013	$4,907.00	$260.00	110	$199,000.00
10016	$3,695.00	$1,290.00	65	$220,000.00
10035	$8,525.00	$2,940.00	62	$105,000.00
10036	$7,200.00	$6,800.00	50	$220,000.00
10018	$12,068.00	$2,342.00	50	$275,000.00
10019	$13,864.00	$1,772.00	39	$198,000.00

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Updated Phase I Documents

Updated Phase I Documents are to follow on the next page.

All changes to Phase I documents are in red. There are a few changes in the ERD, Logical Model, and quite a few in the Data Dictionary.

Phase I: Analysis and Modeling of 3F Properties

by: None of Your Business Analytics

Lindsey Fisher

Nathan Gardner

Kara White

Reilly Williams

Table of Contents

Executive Summary

Overview

The team None of Your Business Analytics aims for our database prototype to have the capabilities to adequately and efficiently support the business operations of 3F Properties. 3F oversees many properties with a variety of supporting processes and relationships involving these properties; our database is intended to record and manage 3F's data concerning such endeavors. Likewise, the system is designed to have ease of use for all 3F's employees. The database has also been designed with careful consideration to create a dynamic system that will remain usable for years to come.

Project Features

As previously mentioned, the database will support numerous business activities performed by 3F. These activities include managing property information, affairs, and contacts. The database will be able to support each of these items in relation to all 3F's potential and acquired properties. With each type of property—including the multiple subtypes—there are different needs and activities. In the case of potential properties, the database will be able to capture and store information on the characteristics of the property, information about the owner and a description of how the location was identified. This data will be collected and stored by the database. As for the current, acquired properties—consisting of vacant, rental, and work in progress locations--the database will be used to capture all pertinent information regarding the current properties themselves, as well as, information concerning 3F's relationships involved in the identification, acquisition, improvement, rental, and selling processes.

Assumptions

The database is largely modeled after information given by 3F Properties. However, there are multiple assumptions involved in the design that influence the modeling of our database. Firstly, it is assumed that every property can be multiple subtypes over the course of its lifetime. However, all rental properties have zero to many tenants and every tenant can rent zero to many properties. Likewise, all tenants have leases; while every lease does not have a late fee, every lease can accumulate many. Some--but not all rental properties--need repairs, but every work in progress property needs one to many repairs. It is assumed that every subcontractor has at least one skill and at least one tool but may have many. Every subcontractor can perform work on one or multiple repairs, and every repair requires one and only one subcontractor. Furthermore, repairs may require multiple orders or none at all. Suppliers can supply one to many items on one to many orders, and each item can be supplied by one or many suppliers. It is assumed that every order that is not associated with a repair pertains to 3F's office. Additionally, every property can have zero or many business contacts and all business contacts can be involved with one to many properties. Over the course of 3F's involvement, every property can have many loans, but may not have a loan at all. Lastly, it is assumed that repair and escrow accounts are a single account and each property only has one account.

Phase I Deliverables

The following elements are included in this deliverable for Phase I: a conceptual model, logical model, data dictionary, and sample reports. The conceptual model will consist of an implementable ERD. This model will be a visual representation of 3F's business relationships and the concepts behind these relationships, as well as the company's related business rules. The logical model will be the logical schema based on these concepts and relationships, which will become tables that will support the database. The data dictionary is a definition of all the fields and necessary elements in the database. In addition to field name and description, the dictionary will consist of field size, data type, format, and possible values. Lastly, multiple sample reports will be provided to demonstrate the intended capabilities and outputs of the database that will be beneficial to users.

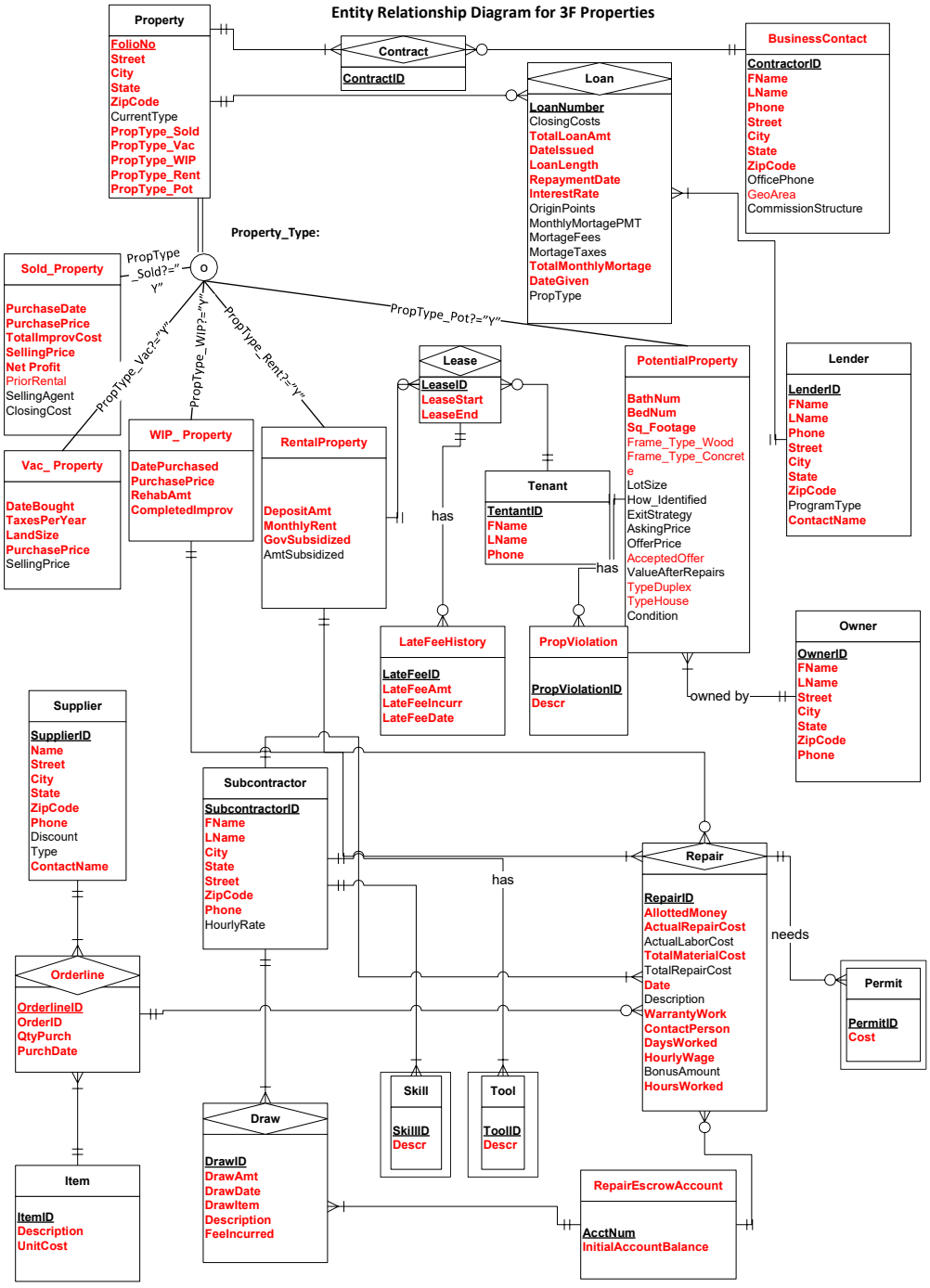
Next Steps

In Phase II, the None of Your Business Analytics Team will create a database application prototype demonstrating the implementation of the models presented in Phase I. To support the database prototype, there will also be proper documentation included in the Phase II deliverable. This documentation will include a user manual containing all query and table SQL commands and a detailed description of all features of the prototype. Likewise, the manual will include a "how to" document, sample outputs, and any updates that were made to the Phase I documents. Many updates are likely to occur during the application process. To conclude Phase II, there will be a presentation and demonstration of the prototype including Microsoft PowerPoint support.

None of Your Business Analytics is working diligently to produce a system suitable for the functions of 3F Properties. The following deliverable provides a definite outline and modeling of the database crafted for the firm's exclusive use.

Conceptual Data Model

Below you will find our Entity Relationship Diagram that is uniquely built to support the day-to-day needs of 3F Properties.



Assumptions

The team made the following assumptions regarding 3F Properties when creating the conceptual model:

1. Assumes over a lifetime that a property could be more than one subtype
2. Assumes not all tenants with leases have late fees and some may have more than one
3. Assumes every WIP Property needs Repairs
4. Assumes that some, but not all Rental Properties need Repairs
5. Assumes every Repair requires a Subcontractor
6. Assumes all Orders not associated with a Repair are for the office
7. Assumes Business Contacts can serve more than one Property, but must serve at least one to be in the records
8. Assumes that not all Properties utilize a Business Contact
9. Assumes that some Properties have paid off loans
10. Assumes that some Properties have refinanced, and therefore have had more than one loan
11. Assumes every Subcontractor has at least one skill
12. Assumes every Subcontractor has at least one tool
13. Assumes a Repair could require more than one Order, or none at all
14. Assumes Repair and Escrow accounts are one joint account with the same purpose

Logical Data Model

Based off the Entity Relationship Diagram, the Logical Model for 3F Properties is below.

Property(**FolioNo, Street, City, State, ZipCode**, CurrentType, **PropType_Sold, PropType_Vac, PropType_WIP, PropType_Rent, PropType_Pot**)

Contract(**ContractID,** ***FolioNum, ContractorID***)

BusinessContact(**ContractorID, FName, LName, Phone, Street, City, State, ZipCode,** OfficePhone, GeoArea, CommissionStructure)

Sold_Property(**FolioNumSold**, **PurchaseDate, PurchasePrice, TotalImprovCost, SellingPrice, NetProfit**, PriorRental, SellingAgent, ClosingCost)

Vac_Property(**FolioNumVac**, **DateBought, TaxesPerYear, LandSize, PurchasePrice**, SellingPrice)

WIP_Property(**FolioNumWIP**, **DatePurchased, PurchasePrice, RehabAmt, CompletedImprov**)

RentalProperty(**FolioNumRent, DepositAmt, MonthlyRent, GovSubsidized**, AmtSubsidized)

Tenant(**TenantID, FName, LName, Phone**)

LateFeeHistory(**LateFeeID, LateFeeAmt, LateFeeIncurr, LateFeeDate**)

PropViolation(**PropViolationID, Descr**, ***FolioNumPot***)

Lease(**LeaseID, LeaseStart, LeaseEnd**, ***FolioNumRent, TenantID, LateFeeID)***

Lender(**LenderID, FName, LName, Phone, Street, City, State, ZipCode**, ProgramType, **ContactName**)

Loan(**LoanNumber,** ClosingCosts, **TotalLoanAmt, DateIssued, LoanLength, RepaymentDate, InterestRate**, OriginPoints, MonthlyMortgagePMT, MortgageFees, MortgageTaxes, **TotalMonthlyMortgage, DateGiven**, PropType, ***FolioNum, LenderID***)

Owner(**OwnerID, FName, LName, Street, City, Sate, ZipCode, Phone**)

PotentialProperty(**FolioNumPot, BathNum, BedNum, Sq_Footage**, Frame_Type_Wood, Frame_Type_Concrete, LotSize, How_Identified, ExitStrategy, AskingPrice, OfferPrice, AcceptedOffer, ValueAfterRepairs, TypeDuplex, TypeHouse, Condition, ***OwnerID***)

Supplier(**SupplierID, Name, Street, City, State, ZipCode, Phone**, Discount, Type, **ContactName**)

Item(**ItemID, Description, UnitCost**)

Orderline(**OrderlineID, OrderID,** QtyPurch, PurchDate, ***SupplierID, ItemID***)

Subcontractor(**SubcontractorID, FName, LName, City, State, Street, ZipCode, Phone**, HourlyRate)

RepairEscrowAccount(**AcctNum, InitialAccountBalance**)

Draw(**DrawID, DrawAmt, DrawDate, DrawItem, Description, FeeIncurred**, ***SubcontractorID, AcctNum***)

Skill(**SkillID, Descr**, ***SubcontractorID***)

Tool(**ToolID, Descr**, ***SubcontractorID***)

Repair(**RepairID, AlottedMoney, ActualRepairCost**, ActualLaborCost, deleted ActualMaterialCost, **TotalMaterialCost**, **Date**, Description, **WarrantyWork, ContactPerson, DaysWorked, HourlyWage**, BonusAmount, **HoursWorked**, ***SubcontractorID,*** *FolioNumWIP*, ***AcctNum, OrderID,*** *FolioNumRent*)

Permit(**PermitID, Cost**, ***RepairID***)

Data Dictionary

Below is a dictionary defining all fields in the database.

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Property							
FolioNo	The primary key for the Property table	VARCHAR	16	99-9999-999-9999	UNIQUE	Y	Y
Street	Street that property is on	VARCHAR	25			Y	N
ZipCode	Zip code that property resides in	CHAR	5			Y	N
City	City that property resides in	VARCHAR	25			Y	N
State	State that property resides in	CHAR	2	'AA'		Y	N
CurrentType	Type of property that the property currently is considered	VARCHAR	4			N	N
PropType_Sold	If the property has been sold	TINYINT		0 = No 1 = Yes		Y	N
PropType_Vac	If property is vacant	TINYINT		0 = No 1 = Yes		Y	N
PropType_WIP	If property is a work-in-progress	TINYINT		0 = No 1 = Yes		Y	N
PropType_Rent	If property is being rented	TINYINT		0 = No 1 = Yes		Y	N
PropType_Pot	If property is a potential property	TINYINT		0 = No 1 = Yes		Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Permit							
PermitID	Primary Key for the Permit table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
Cost	How much the permit cost to obtain	MONEY		99.99		Y	Y
RepairID	Foreign Key from the Repair table	INT			Same as RepairID (Repair), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
BusinessContact							
ContractorID	Primary key for BusinessContact	INT		IDENTITY(1,1)	UNIQUE	Y	Y
FName	Contact's first name	VARCHAR	15			Y	N
LName	Contact's last name	VARCHAR	15			Y	N
Phone	Contact's phone number	VARCHAR	10	(999)999-9999		Y	N
City	City that property resides in	VARCHAR	25			Y	N
Street	Contact's street	VARCHAR	50			Y	N
ZipCode	Contact's zip code	CHAR	5			Y	N
State	Contact's state	CHAR	2			Y	N
OfficePhone	Contact's office phone	CHAR	10	(999)999-9999		N	N
GeoArea	Area contact is located	VARCHAR	2			N	N
CommissionStructure	Percentage of commission that is received	DECIMAL	(2,2)	99.99		N	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
WIP_Property							
FolioNumWIP	Primary key for Work-In-ProgressProperty	VARCHAR	16	99-9999-999-9999	UNIQUE	Y	Y
DatePurchased	Date 3F acquired property	DATE		99/99/99		Y	N
PurchasePrice	Amount 3F paid for property	MONEY		99.99		Y	N
RehabAmt	Total costs of all rehabilitation projects on property	MONEY		99.99		Y	N
CompletedImprov	If all improvements have been completed	TINYINT		0 = No 1= Yes		Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Sold_Property							
FolioNumSold	Primary key for SoldProperty	VARCHAR	16	99-9999-999-9999	UNIQUE	Y	Y
PurchaseDate	Date property was sold	DATE		99/99/99		Y	N
PurchasePrice	Price property was bought for	MONEY		99.99		Y	N
TotalImprovCost	Total cost of all improvements made	MONEY		99.99		Y	N
SellingPrice	Price 3F sold the property for	MONEY		99.99		Y	N
NetProfit	Profit made from sell of property	MONEY		99.99		Y	N
PriorRental	If the property was rented prior to selling	TINYINT		0 = No 1= Yes		N	N
SellingAgent	Name of selling agent	VARCHAR	25			N	N
ClosingCost	Amount of closing costs	MONEY		99.99		N	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Vac_Property							
FolioNumVac	Primary key for VacantProperty	VARCHAR	16	99-9999-999-9999	UNIQUE	Y	Y
DateBought	Date 3F acquired property	Date		99/99/99		Y	N
TaxesPerYear	Taxes to be paid every year	MONEY		99.99		Y	N
LandSize	Size of land where property resides in acres	INT				Y	N
PurchasePrice	Amount 3F paid for property	MONEY		99.99		Y	N
SellingPrice	Amount 3F sold lot for	MONEY		99.99		N	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
PropertyViolation							

PropViolationID	Primary key for PropertyViolation	INT		IDENTITY(1,1)	UNIQUE	Y	Y
Descr	Details regarding property violation	VARCHAR	100			Y	N
FolioNumPot	Foreign key from PotentialProperty	VARCHAR	16		Same as PotentialProperty(FolioNumPot), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Contract							
ContractID	Primary key of the Contract table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
FolioNum	Foreign key from Property	VARCHAR	16	99-9999-999-9999	Same as Property(FolioNum), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N
ContractorID	Foreign key from BusinessContact	INT			Same as BusinessContact(ContractorID), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
RentalProperty							
FolioNumRent	Primary key for RentalProperty	VARCHAR	16	99-9999-999-9999	UNIQUE	Y	Y
DeposistAmt	The minimum amount required for a deposit	MONEY		99.99		Y	N
MonthlyRent	The amount charged each month for rent	MONEY		99.99		Y	N
GovSubsidized	If property is subsidized by the government	TINYINT		0 = No 1 = Yes		Y	N
AmtSubsidized	How much the property is subsidized by the government	MONEY		99.99		N	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed

Tenant							
TenantID	Primary key for Tenant	INT		IDENTITY(1,1)	UNIQUE	Y	Y
FName	Tenant's first name	VARCHAR	15			Y	N
LName	Tenant's first name	VARCHAR	15			Y	N
Phone	Tenant's phone number	VARCHAR	10	(999)999-9999		Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
LateFeeHistory							
LateFeeID	Primary key for LateFeeHistory	INT		IDENTITY(1,1)	UNIQUE	Y	Y
LateFeeAmt	Amount of the late fee	MONEY		99.99		Y	N
LateFeeIncurr	Total late fee cost incurred	MONEY		99.99		Y	N
LateFeeDate	Date late fee was awarded	DATE		99/99/99		Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Lease							
LeaseID	Primary key for Lease	INT		IDENTITY(1,1)	UNIQUE	Y	Y
LeaseStart	Date the lease started	DATE		99/99/99		Y	N
LeaseEnd	Date the lease ends	DATE		99/99/99		Y	N
FolioNumRent	Foreign key from RentProperty	VARCHAR	16	99-9999-999-9999	Same as RentProperty(FolioNumRent), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N
TenantID	Foreign key from Tenant	INT			Same as Tenant(TenantID),	Y	N

					ON UPDATE CASCADE ON DELETE NO ACTION		
LateFeeID	Foreign key from LateFeeHistory	INT			Same as LateFeeHistory(LateFeeID), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Tool							
ToolID	Primary Key for the Tool table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
Descr	A description of the tool	VARCHAR	50			Y	N
SubcontractorID	Foreign Key from the Subcontractor table	INT			Same as SubcontractorID (Subcontractor), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Lender							
LenderID	Primary key for Lender	INT		IDENTITY(1,1)	UNIQUE	Y	Y
FName	Lender's first name	VARCHAR	15			Y	N
LName	Lender's last name	VARCHAR	15			Y	N
Phone	Lender’s phone number	CHAR	10	(999)999-9999		Y	N
Street	Lender’s street	VARCHAR	50			Y	N
City	Lender's city	VARCHAR	40			Y	N
State	Lender's state	CHAR	2	‘AA’		Y	N
ZipCode	Lender's zip code	CHAR	5			Y	N
ProgramType	Type of program that Lender specializes in	VARCHAR	30			N	N
ContactName	Full name of contact	VARCHAR	30			Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
RepairEscrow Account							
AcctNum	Primary Key for the RepairEscrow Account table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
InitialAccountBalance	How much money the account held at its creation	MONEY				Y	Y

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Loan							
LoanNumber	Primary key for Loan	INT		IDENTITY(1,1)	UNIQUE	Y	Y
ClosingCosts	Closing costs asociated with property	MONEY				N	N
TotalLoanAmt	Amount of loan	MONEY				Y	N
DateIssued	Date the loan was issued	DATE		99/99/99		Y	N
LoanLength	Amount of months the loan is for	INT				Y	N
RepaymentDate	Date the loan is to be repaid by	DATE		99/99/99		Y	N
InterestRate	Percentage of interest to be charged on loan	INT		0.99		Y	N
OrginPoint	Fee paid to lender	MONEY		99.99		N	N
MonthlyMortgagePMT	Amount the mortage is per month	MONEY		99.99		N	N
MortgageFees	Total amount of fees applied to mortage	MONEY		99.99		N	N
MortgageTaxes	Total amount of taxes applied to mortage	MONEY		99.99		Y	N

TotalMonthlyMortgage	Total of all costs associated with mortgage and mortage	MONEY		99.99		Y	N
DateGiven	The date the loan was granted on	DATE		99/99/99		Y	N
PropType	Type of property associated with the loan	VARCHAR	10			N	N
FolioNum	Foreign key of Property	VARCHAR	16	99-9999-999-9999	Same as Property(FolioNum), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N
LenderID	Foreign key of Lender	INT			Same as Lender(LenderID), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Owner							
OwnerID	The primary key for the Owner table	INT		IDENTITY(1,1)	UNIQUE	Y	N
FName	First name of the Owner of a Potential Property	VARCHAR	30			Y	N
LName	Last name of the Owner of a Potential Property	VARCHAR	30			Y	Y
Street	Street address for the owner	VARCHAR	50			Y	N
City	City that the owner lives in	VARCHAR	50			Y	N
State	State that the owner lives in	CHAR	2	'AA'		Y	N
ZipCode	Zip code of the address of an owner	CHAR	5	99999		Y	N
Phone	Phone number of the owner	CHAR	10	(999)999-9999		Y	Y

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Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Skill							
SkillID	Primary Key for the Skill table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
Desc	A description of the skill	VARCHAR	150			Y	N
SubcontractorID	Foreign Key from the Subcontractor table	INT			Same as SubcontractorID (Subcontractor), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
PotentialProperty							
FolioNumPot	Primary Key for Potential Property	VARCHAR	16	99-9999-999-9999	UNIQUE	Y	Y
BathNum	The number of bathrooms a potential property has	INT				Y	N
BedNum	The number of bedrooms a potential property has	INT				Y	N
Sq_Footage	The square footage of a potential property	INT				Y	N
Frame_Type_Wood	If the frame type of the property is wood	TINYINT		0 = No 1 = Yes		N	N
Frame_Type_Concrete	If the frame type of the property is concrete	TINYINT		0 = No 1 = Yes		N	N
LotSize	The lot size of the property	INT				N	N
How_Identified	How the property was identified	VARCHAR	150			N	N
ExitStrategy	The exit strategy if the property is acquired	VARCHAR	150			N	N
AskingPrice	How much the property is listed for	MONEY		99.99		N	N

OfferPrice	The price the company offers to buy the property	MONEY		99.99		N	N
AcceptedOffer	If the offer has been accepted	TINYINT		0 = No 1 = Yes		N	Y
ValueAfterRepairs	How much the property is worth after all repairs are completed	MONEY		99.99		N	N
TypeDuplex	If the property is a duplex	TINYINT		0 = No 1 = Yes		N	N
TypeHouse	If the property is a house	TINYINT		0 = No 1 = Yes		N	N
Condition	What condition is the property in	VARCHAR	20			N	N
OwnerID	Foreign Key from the Owner table	INT			Same as OwnerID (Owner), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Supplier							
SupplierID	Primary Key for Supplier table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
Name	The name of the Supplier	VARCHAR	50			Y	Y
Street	The street address for the supplier	VARCHAR	50			Y	N
City	The city that the supplier is located in	VARCHAR	40			Y	N
State	The state that the supplier is located in	CHAR	2	'AA'		Y	N
ZipCode	The zip code for the supplier's address	CHAR	5	99999		Y	N
Phone	A contact phone number for the supplier	CHAR	10	(999)999-9999		Y	Y
Discount	The discount offered by the supplier (%)	INT		0.99		N	Y
Type	What type of items the supplier sells	VARCHAR	15			N	Y

ContactName	The name of the individual to contact at the supplier	VARCHAR	40			Y	Y

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Subcontractor							
SubcontractorID	Primary Key for the Subcontractor table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
FName	First name of the subcontractor	VARCHAR	15			Y	N
LName	Last name of the subcontractor	VARCHAR	15			Y	Y
City	City where the subcontractor lives	VARCHAR	40			Y	N
State	State where the subcontractor lives	CHAR	2	'AA'		Y	N
Street	Street address for the subcontractor	VARCHAR	50			Y	N
ZipCode	Zip code of the subcontractor's address	CHAR	5	99999		Y	N
Phone	Phone number to contact	CHAR	10	(999)999-9999		Y	Y
HourlyRate	How much the subcontractor is paid per hour	MONEY		99.99		N	Y

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Draw							
DrawID	Primary Key for the Draw table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
DrawAmt	How much money was taken from the Account	MONEY		99.99		Y	Y
DrawDate	The date the draw occurred	DATE		99/99/9999		Y	Y
DrawItem	Related item from line item repair list	VARCHAR	50			Y	N
Description	A description of the draw	VARCHAR	150			Y	N

FeeIncurred	If there was a fee incurred when drawing	TINYINT		0 = No 1 = Yes		Y	N
SubcontractorID	Foreign Key from the Subcontractor table	INT			Same as SubcontractorID (Subcontractor), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N
AcctNum	Foreign Key from the RepairEscrow Account table	INT			Same as AcctNum (RepairEscrow Account), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Item							
ItemID	Primary Key for the Item table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
Description	Description of the item	VARCHAR	200			Y	N
UnitCost	Cost per item for the item	MONEY		99.99		Y	Y

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Repair							
RepairID	Primary Key for the Repair table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
AllottedMoney	The budget for the reapir	MONEY		99.99		Y	Y
ActualRepairCost	How much the repair actually cost	MONEY		99.99		Y	Y
ActualLaborCost	The amount of money the labor for the repair cost	MONEY		99.99		N	Y
TotalMaterialCost	The amount of money the	MONEY		99.99		Y	Y

	materials for the repair cost						
Date	The date the repair was completed	DATE		99/99/9999		Y	Y
Description	A description of the repair	VARCHAR	150			N	N
WarrantyWork	If the repair was warranty related work	TINYINT		0 = No 1 = Yes		Y	N
ContactPerson	The main person to contact for information about the repair	VARCHAR	50			Y	Y
DaysWorked	Number of days a subcontractor worked on a repair	Date		99/99/9999		Y	Y
HourlyWage	The hourly wage a subcontractor made working a repair	MONEY		99.99		Y	Y
BonusAmount	How much money was paid in bonus for the repair	MONEY		99.99		N	Y
HoursWorked	How many hours were spent working on the repair	INT				Y	Y
SubcontractorID	Foreign Key from the Subcontractor table	INT			Same as SubcontractorID (Subcontractor), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N
FolioNumWIP	Foreign Key from the WIP Property table	VARCHAR	16	99-9999-999-9999	Same as FolioNumWIP (Work-in-Progress Property), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N
AcctNum	Foreign Key from the ReapirEscrow Account table	INT			Same as AcctNum (RepairEscrow Account),	Y	N

					ON UPDATE CASCADE ON DELETE NO ACTION		
OrderID	Foreign Key from the Order table	INT			Same as OrderID (Order), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N
FolioNum	Foreign Key from the Rental Property table	VARCHAR	16	99-9999-999-9999	Same as FolioNo (Property), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Field Name	Description	Date Type	Field Size	Format	Validation	Required	Indexed
Orderline							
OrderlineID	Primary Key for the Orderline table	INT		IDENTITY(1,1)	UNIQUE	Y	Y
OrderID	What Order the Orderline is in	INT				Y	N
QtyPurch	How many items were purchased	INT				Y	Y
PurchDate	The date the order was made	Date		99/99/9999		Y	Y
SupplierID	Foreign Key from the Supplier table	INT			Same as SupplierID (Supplier), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N
ItemID	Foreign Key from the Item table	INT			Same as ItemID (Item), ON UPDATE CASCADE ON DELETE NO ACTION	Y	N

Sample Reports

Subcontractor Identifier

The Subcontractor Identifier report is for any Regional Property Owner or employee that needs to find a subcontractor. The report allows the user to find subcontracts that have the skills they need and are closely located.

Purpose: The purpose of this query is to see what skills a subcontractor has and at what price subcontractors can complete a repair

Recipient: Regional Property Owner

User-definable parameter: Skills, City

Sorting/grouping/totaling used: Sorted by HourlyRate Ascending

Subcontractor Skills and Pricing

SubcontractorID	FName	LName	Desc	HourlyRate	Phone
24	Billy	Galvan	Carpentry	45	(312) 882-6535
50	Angus	Giles	Plumbing	48	(312) 882-6535
37	Gabrielle	Charleton	Plumbing	49	(312) 882-6535
4	Phoebe	Watson	Carpentry	51	(312) 882-6535
19	Joe	Harris	Plumbing	55	(312) 882-6535
12	Amina	Boyle	Carpentry, Plumbing	75	(312) 882-6535

Generated by: Nathan Gardner

Date Created: 2-26-19

Outstanding Loans

The Outstanding Loans report shows which properties have outstanding loans, as well as other financial information about the loan. One can see how much the loan originally was, how much has been paid off, and the outstanding balance. When the report is run the default option is to show outstanding loans based on the day of the query; however, this can be changed by the user to fit their unique needs.

Purpose: To identify the total amount of outstanding loans on all properties at a certain point in time. The default date is the day the query is ran.

Recipient: Accounting department

User-definable parameter: Date

Sorting/grouping/totaling used: Sum(TotLoanAmt – Amount Paid)

Liabilities from Loans

FolioNum	TotLoanAmt	Amount Paid	Outstanding Balance
03-3855-429-0021	$25,000,000.00	$6,458,943.00	$18,541,057.00
01-5329-999-9980	$10,000.00	$7,321.00	$2,679.00
46-2025-423-9721	$10,000.00	$952.00	$9,048.00

Generated by: Nathan Gardner Date Created: 2-26-19

Potential Property Contacts

The Potential Property Contacts report allows employees to have a list of all owners, contact information, and asking price for potential properties. Employees will be able to pick what city(s) that they want to evaluate or a range in asking price.

Purpose: To identify owners of potential properties in a city, and to discover the asking price as well as ways to contact the owner.

Recipient: 3F's Purchasing Agents

User-definable parameter: City, AskingPrice

Sorting/grouping/totaling used: Order by Owner LName

Potential Property Contacts

OwnerID	LName	FName	City	AskingPrice	Phone
1	Farrington	Jaya	Baltimore	$540,000.00	(410) 883-5931
2	Heaton	Khadeeja	Baltimore	$485,000.00	(410) 495-3529
3	Hendricks	Louis	Baltimore	$599,999.00	(410) 059-4526
5	Humphries	Patrycja	Baltimore	$350,000.00	(410) 604-7042
8	Oconner	Sonya	Baltimore	$579,763.00	(410) 203-6853
13	Peterson	Benny	Baltimore	$488,037.00	(410) 000-1423
21	Ritter	Mack	Baltimore	$356,307.00	(410) 667-7778
34	Stark	Roksana	Baltimore	$471,489.00	(410) 102-9348
55	Sandoval	Lilli	Baltimore	$439,484.00	(410) 339-9993
89	Weber	Sohaib	Baltimore	$220,590.00	(410) 800-8142

Generated by: Nathan Gardner Date Created: 2-26-19

Order Summary

The Order Summary report allows 3F employees to keep track of any order for sorting or accounting purpose. On the report, one will be able to see all items ordered as well quantity and cost per item. In addition to individual sums, a total cost of the order is also shown in the report.

Purpose: To see all items in an order as well as the quantity, cost, and total cost.

Recipient: Accountants, any Subcontractor or Employees needing to reference an order

User-definable parameter: OrderID

Sorting/grouping/totaling used: Sum(Quantity*Cost), Group by ItemID

Order Summary

	ItemID	Quantity	Cost	Total
	I09	4	$10.50	$42.00
	I05	3	$8.00	$24.00
	I04	60	$0.10	$6.00
	I21	56	$0.50	$28.00
Total				**$100**

Generated by: Nathan Gardner Date Created: 2-26-19

Late Fee Search

The Late Fee Search report is query that will show all tenants that have late fees. The user will be able to choose any specific dates or cities to evaluate. Once the report is ran, the 3F employee or landlord will be able to see all leases and tenants associated with a late fee as well as the total sum of all late fees acquired.

Purpose: To identify tenants who have incurred late fees and discover the total late fees

Recipient: Landlord

User-definable parameter: City, LateFeeDate

Sorting/grouping/totaling used: Order by LName, Sum(LateFeeAmt)

Tenants With Late Fees

	LeaseID	TenantID	FName	LName	Phone	LateFeeAmt	LateFeeDate
	34	1	Camilla	Aldred	(202) 534-0181	$50.00	1-30-19
	36	9	Carl	Boyd	(202) 555-0134	$50.00	1-30-19
	75	16	Andre	Hernandez	(202) 000-0125	$50.00	1-30-19
	83	81	Lexi	May	(202) 935-0130	$50.00	1-30-19
	1	3	Devan	Nicholson	(202) 384-0167	$50.00	1-30-19
	90	55	Claire	Popovich	(202) 665-0160	$50.00	1-30-19
	63	53	Treyvon	Walker	(202) 192-9912	$50.00	1-30-19
Total						**$350.00**	

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