

Eugene Borts

Applied Database II

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Assignment 8

This assignment has been divided into two parts. The first part contains SQL code that has been used in this assignment, and the second part contains screenshots of the results, including query results, stored procedure results, and tables.

Part I: SQL Code

Lookup Tables

```
USE FloridaHousingDB

CREATE TABLE [dbo].[ACR](
[Code] [varchar](5) NULL,
[Description1] [varchar](50) NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[FS](
[Code] [varchar](5) NULL,
[Description1] [varchar](50) NULL
) ON [PRIMARY]
GO

CREATE TABLE [dbo].[REGION](
[Code] [varchar](5) NULL,
[Description1] [varchar](50) NULL
) ON [PRIMARY]

CREATE TABLE [dbo].[Type](
[Code] [varchar](5) NULL,
[Description1] [varchar](50) NULL
) ON [PRIMARY]
GO
```

Categories and Codes Tables

```
USE FloridaHousingDB

DROP TABLE Codes
```

```

DROP TABLE Categories

CREATE TABLE Categories (
    [Name] NVARCHAR(50) PRIMARY KEY NOT NULL,
    [Description] NVARCHAR(200)
)
CREATE TABLE Codes (
    [Name] NVARCHAR(50) NOT NULL,
    [CategoryName] NVARCHAR(50) FOREIGN KEY REFERENCES
Categories(Name) NOT NULL,
    [Description] NVARCHAR(200))

```

Insert Category Stored Procedure

```

USE FloridaHousingDB

DROP PROCEDURE sp_InsertCategory
GO

CREATE PROCEDURE sp_InsertCategory
    @CategoryName nvarchar(50),
    @Description nvarchar(200)

AS
BEGIN
INSERT INTO Categories(Name, Description)
VALUES(@CategoryName, @Description)
END
GO

```

Insert Code Stored Procedure

```

USE FloridaHousingDB

DROP PROCEDURE sp_InsertCode
GO

CREATE PROCEDURE sp_InsertCode
    @Name nvarchar(50),
    @CategoryName nvarchar(50),
    @Description nvarchar(200)

AS
IF EXISTS (SELECT * FROM Categories WHERE Name = @CategoryName)
BEGIN
INSERT INTO Codes(Name, CategoryName, Description)
VALUES(@Name, @CategoryName, @Description)
END
ELSE
BEGIN
INSERT INTO Categories(Name, Description)
VALUES(@CategoryName, @Description)

```

```
INSERT INTO Codes(CategoryName)
VALUES(@CategoryName)

END
```

ACR Query

```
USE FloridaHousingDB

SELECT [Codes].[Description], COUNT(*) As 'Number Units'
FROM FLHousing, Codes, Categories
WHERE FLHousing.ACR = Codes.Name
AND Codes.CategoryName = 'ACR'
AND Categories.Name = Codes.CategoryName
GROUP BY [Codes].[Description]
```

FS Query

```
USE FloridaHousingDB

SELECT [Codes].[Description], COUNT(*) As 'Number Units'
FROM FLHousing, Codes, Categories
WHERE FLHousing.FS = Codes.Name
AND Codes.CategoryName = 'FS'
AND Categories.Name = Codes.CategoryName
GROUP BY [Codes].[Description]
```

Type Query

```
USE FloridaHousingDB

SELECT [Codes].[Description], COUNT(*) As 'Number Units'
FROM FLHousing, Codes, Categories
WHERE FLHousing.Type = Codes.Name
AND Codes.CategoryName = 'Type'
AND Categories.Name = Codes.CategoryName
GROUP BY [Codes].[Description]
```

Part II: Results

Query Results

FS Query

	Description	Number Units
1	No	229764
2	Yes	15000

ACR Query

	Description	Number Units
1	House on less than one acre	170745
2	House on one to less than ten acres	20940
3	House on ten acres or more	2586

Type Query

	Description	Number Units
1	Housing Unit	260522
2	Institutional Group Quarters	9537
3	Noninstitutional Group Quarters	3001

Stored Procedure Results

Codes Table

	Name	CategoryName	Description
1	1	REGION	Northeast
2	2	REGION	Midwest
3	3	REGION	South
4	4	REGION	West
5	9	REGION	Puerto Rico
6	1	TYPE	Housing Unit
7	2	TYPE	Institutional Group Quarters
8	3	TYPE	Noninstitutional Group Quarters
9	1	ACR	House on less than one acre
10	2	ACR	House on one to less than ten acres
11	3	ACR	House on ten acres or more
12	1	FS	Yes
13	2	FS	No

Categories Table

	Name	Description
1	ACR	Lot Size
2	FS	Yearly food stamp/Supplemental Nutrition Assista...
3	REGION	Region Code
4	TYPE	Type of Unit

Lookup Tables

ACR

	Code	Description1
1	1	House on less than one acre
2	2	House on one to less than ten acres
3	3	House on ten acres or more

FS

	Code	Description1
1	1	Yes
2	2	No

Region

	Code	Description1
1	1	Northwest
2	2	Midwest
3	3	South
4	4	West
5	9	Puerto Rico

Type

	Code	Description1
1	1	Housing Unit
2	2	Institutional Group Quarters
3	3	Noninstitutional Group Quarters