#DB

CREATE DATABASE IF NOT EXISTS EcoSave\_Construction;

USE EcoSave\_Construction;

#Table 1

CREATE TABLE IF NOT EXISTS Country

(

CountryID INT (3) not null AUTO\_INCREMENT,

CountryName VARCHAR (50) NOT NULL,

CountryCapital VARCHAR (50) unique,

Constraint Pk\_CountryID Primary key (CountryID)

);

#Insert Values Table 1

Use ecosave\_construction;

Insert into Country (CountryName, CountryCapital) values ("Ireland", "Dublin");

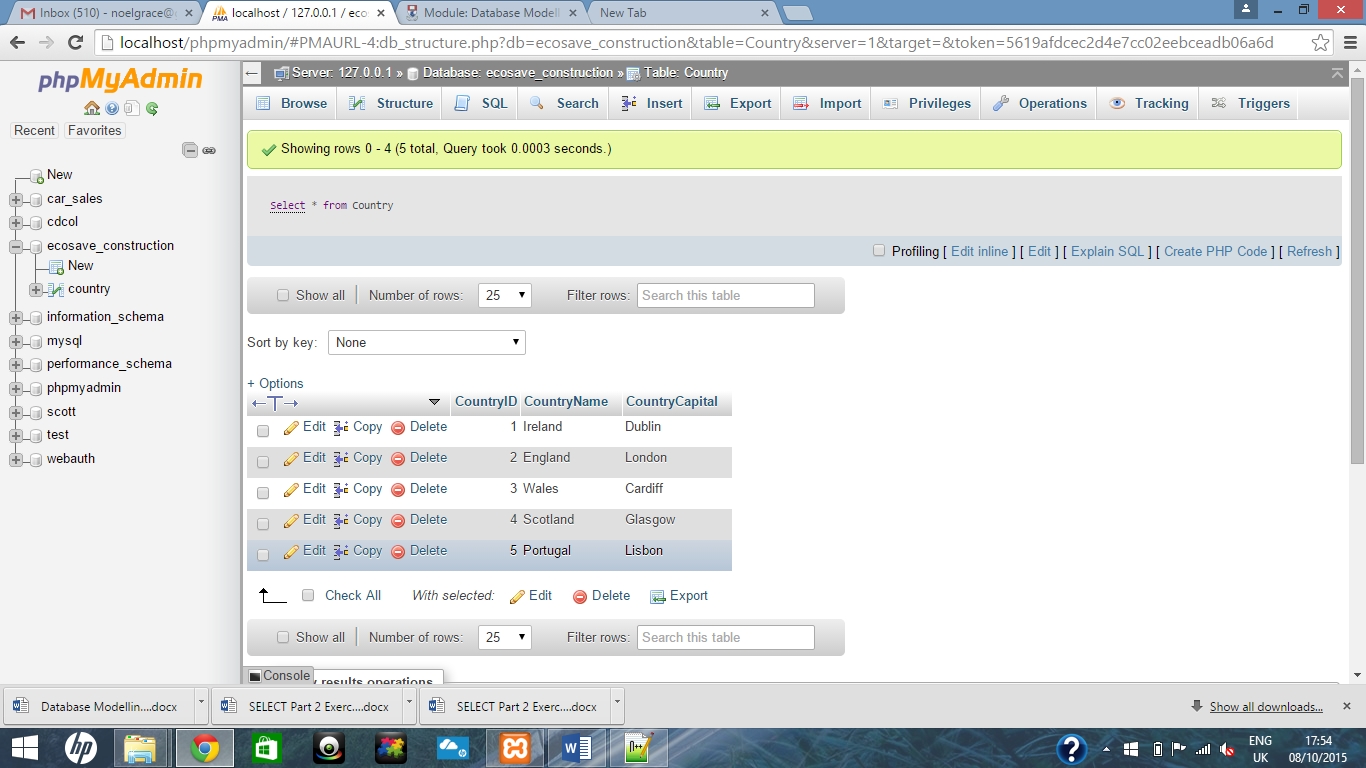
Insert into Country (CountryName, CountryCapital) values (“England”, “London”);

Insert into Country (CountryName, CountryCapital) values (“Wales”, “Cardiff”);

Insert into Country (CountryName, CountryCapital) values (“Scotland”, “Glasgow”);

# View Table 1

SELECT \* FROM `country`;



#Table 2

CREATE TABLE IF NOT EXISTS Branch

(

BranchID Int (3) NOT NULL,

PRIMARY KEY(BranchID),

BranchName VARCHAR (50),

BranchAddress Varchar (50) not null,

BranchEmail Varchar (50),

BranchPhone Int (10) not null,

B\_CountryID Int (3) not null,

CONSTRAINT FK\_CountryID FOREIGN KEY (B\_CountryID)

REFERENCES Country (CountryID)

);

# Insert values table 2

Insert into Branch values (1, "Sisk", "Dublin", "dublin@ecosave.com", 0123456789, 1);

Insert into Branch values (2, "Grace", "England", "london@ecosave.com", 0223456789, 2);

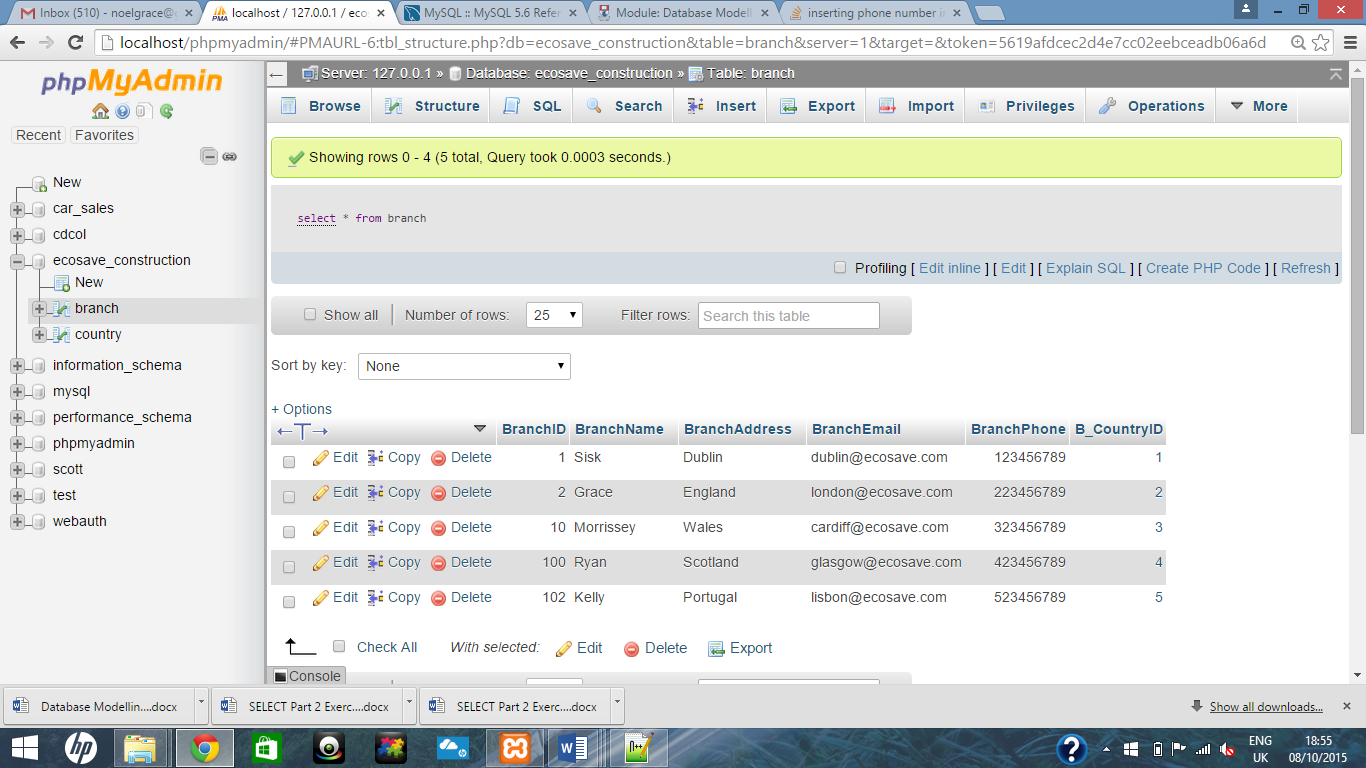
Insert into Branch values (10, "Morrissey", "Wales", "cardiff@ecosave.com", 0323456789, 3);

Insert into Branch values (100, "Ryan", "Scotland", "glasgow@ecosave.com", 0423456789, 4);

Insert into Branch values (102, "Kelly", "Portugal", "lisbon@ecosave.com", 0523456789, 5);

#View Table 2

select \* from branch;



#Table 3

CREATE TABLE IF NOT EXISTS Building

(

BuildingID Int (3) NOT NULL,

BuildingName VARCHAR (50) unique,

BuildingType default "Two Storey",

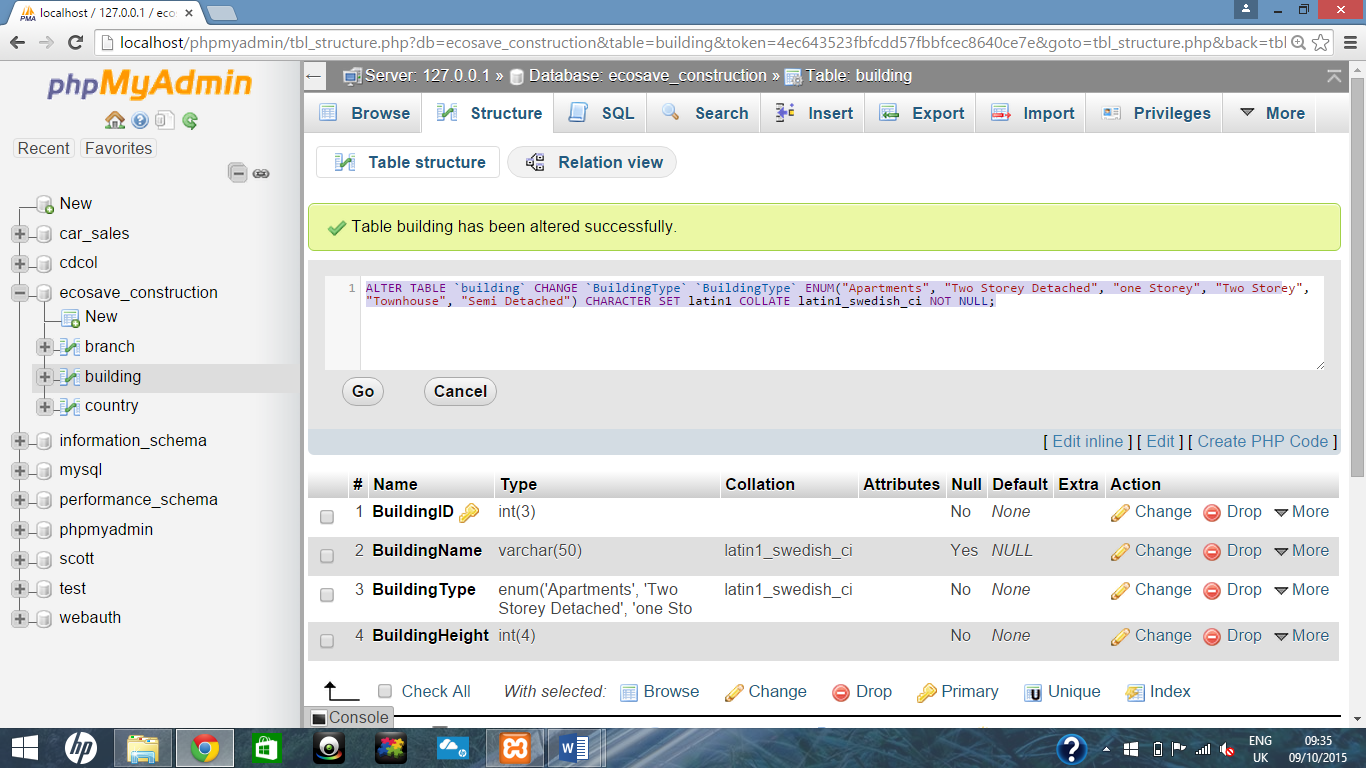
BuildingHeight INT (4) not null,

Constraint PK\_BUILDING PRIMARY KEY(BuildingID)

);

# Add enum Values

ALTER TABLE `building` CHANGE `BuildingType` `BuildingType` ENUM("Apartments", "Two Storey Detached", "one Storey", "Two Storey", "Townhouse", "Semi Detached") CHARACTER SET latin1 COLLATE latin1\_swedish\_ci NOT NULL;



# Table 3 Values

Insert into Building values (200, "Charlefield", "Two Storey", 50); # 1 row affected.

Insert into Building values (250, "Graceland", "Semi Detached", 25); # 1 row affected.

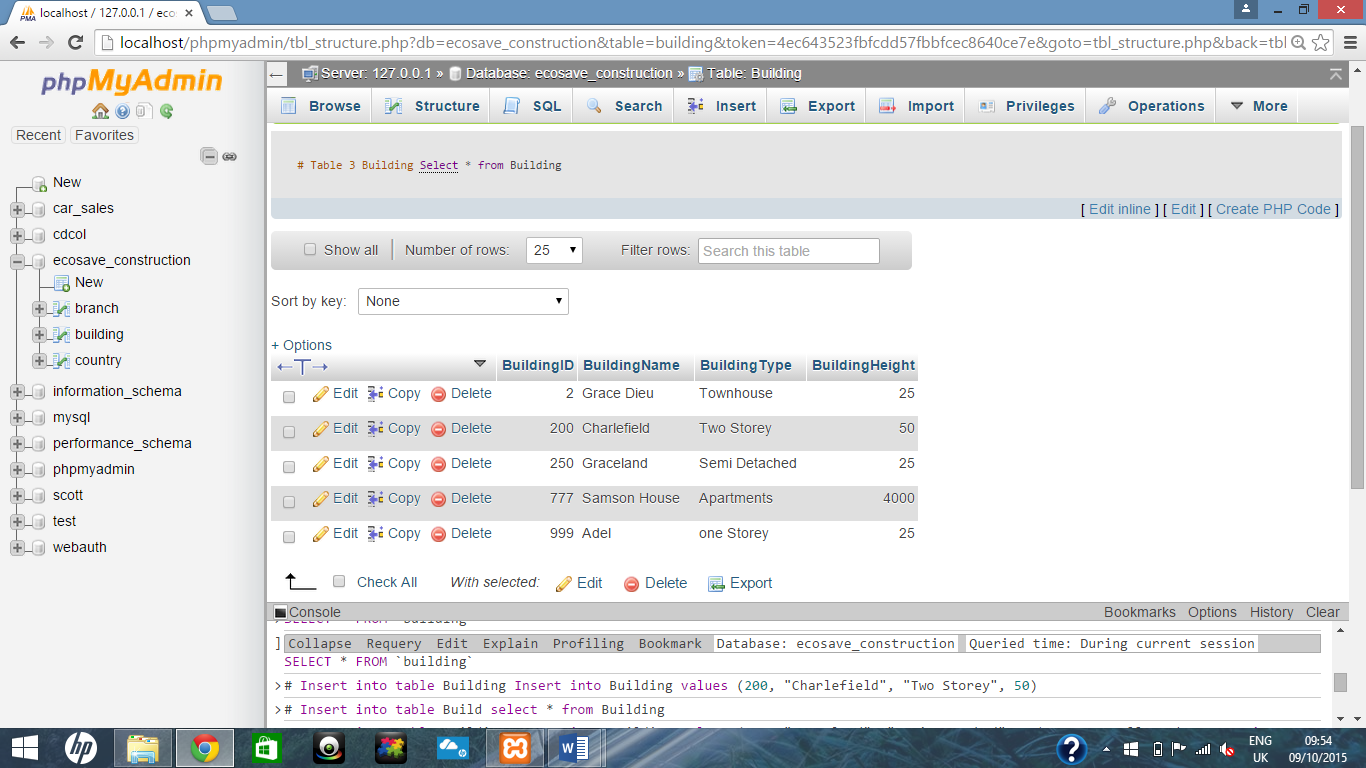
Insert into Building values (002, "Grace Dieu", "Townhouse", 25); # 1 row affected.

Insert into Building values (999, "Adel", "One Storey", 25); # 1 row affected.

Insert into Building values (777, "Samson House", "Apartments", 4000); # 1 row affected.

# Table 3 Building

Select \* from Building;



#Table 4

CREATE TABLE IF NOT EXISTS Roof

(

RoofID Int (3) NOT NULL,

RoofType enum("Flat", "Pitched", "Vaulted") default "Pitched",

RoofAngle Int (3) not null default 45,

RoofSoilDepth INT (5) not null,

Constraint PK\_Roof PRIMARY KEY(RoofID)

);

# Table 4 Values

Insert into Roof (RoofID, RoofSoilDepth) values (501, 6000);

Insert into Roof values (200, "Flat", 30, 5000);

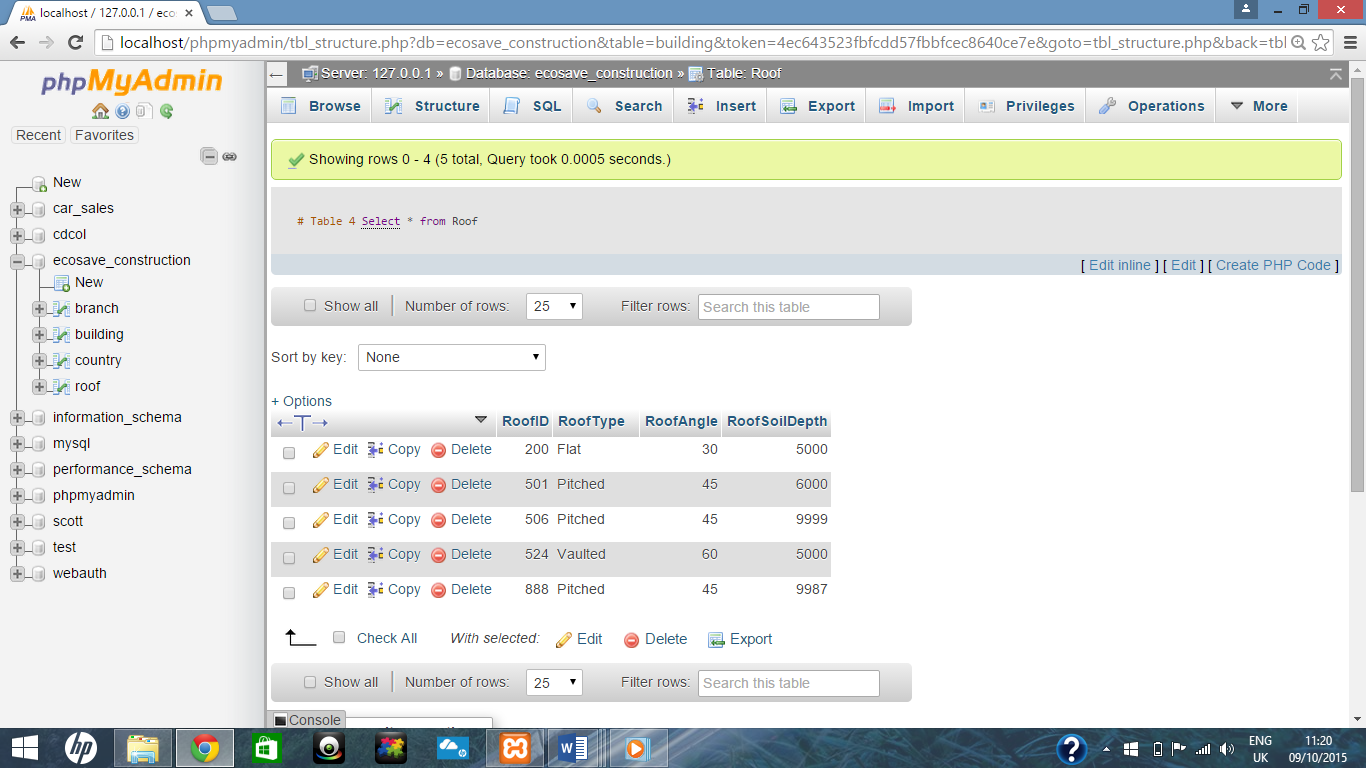
Insert into Roof (RoofID, RoofSoilDepth) values (506, 9999);

Insert into Roof (RoofID, RoofSoilDepth) values (888, 9987);

Insert into Roof values (524, "Vaulted", 60, 5000);

# Table 4

Select \* from Roof;



# Create Table 5

CREATE TABLE IF NOT EXISTS Client

(

ClientID Int (5) NOT NULL,

PRIMARY KEY(ClientID),

ClientName VARCHAR (50),

ClientAddress varchar (50) not null,

ClientEmail varchar (30) not null,

ClientPhone Int (10) not null,

ClientVatNum Int (10) Unique,

CompanyName Varchar (50),

CompanyDesc enum("SME", "Multinational")

);

# Insert values Table 5

Insert into client values (50001, "Noel Grace", "Tinnislatty, The Rower, Co. Kilkenny", "noelgrace@gmail.com", 0851267976, 1111111111, "Redhat", "SME");# 1 row affected.

INSERT INTO `client` VALUES (60001, 'Michael Grace', 'Tinnislatty, The Rower, Co. Kilkenny', 'mickeygmart@msn.com', 872729040, 1111111119, 'Intreo', 'SME'); # 1 row affected.

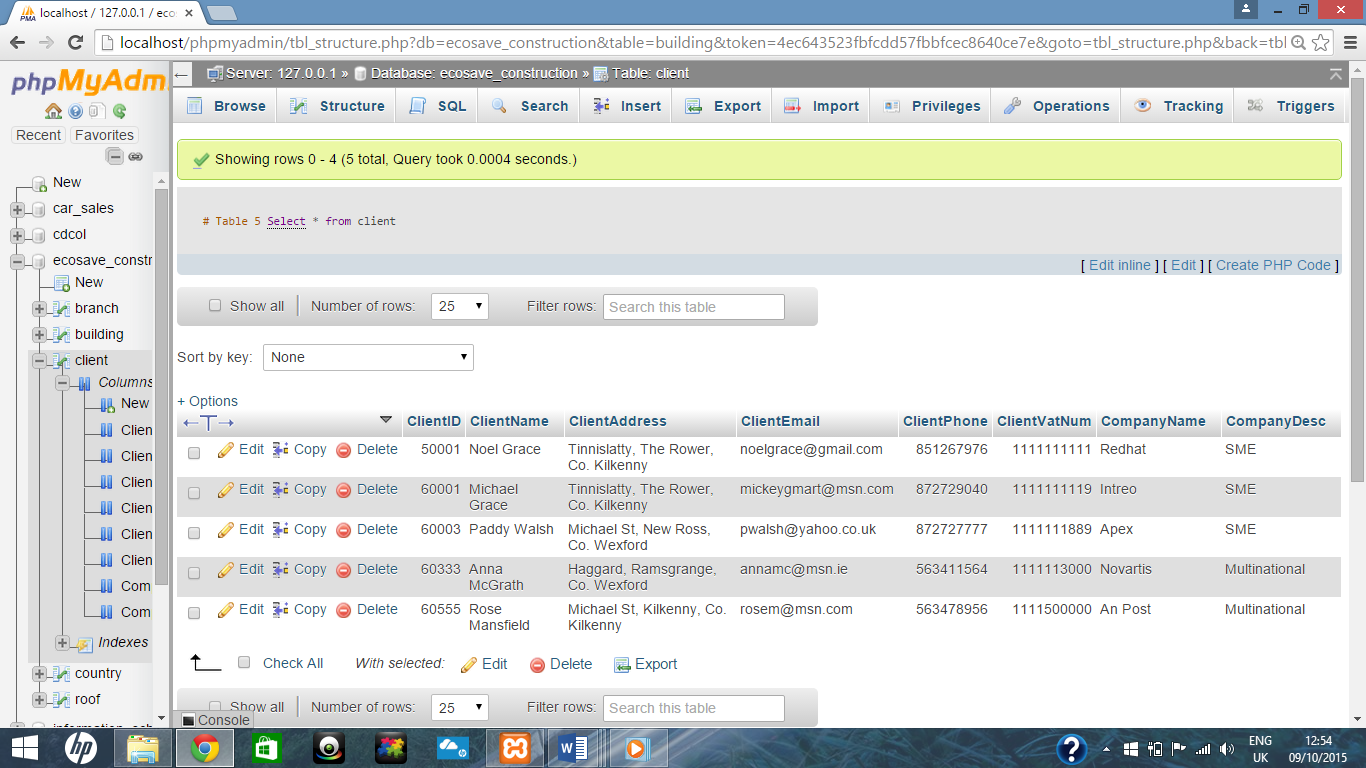
Insert into client values (60003, "Paddy Walsh", "Michael St, New Ross, Co. Wexford", "pwalsh@yahoo.co.uk", 0872727777, 1111111889, "Apex", "SME");# 1 row affected.

Insert into client values (60333, "Anna McGrath", "Haggard, Ramsgrange, Co. Wexford", "annamc@msn.ie", 0563411564, 1111113000, "Novartis", "Multinational");# 1 row affected.

Insert into client values (60555, "Rose Mansfield", "Michael St, Kilkenny, Co. Kilkenny", "rosem@msn.com", 0563478956, 1111500000, "An Post", "Multinational");# 1 row affected.

# View Table 5

Select \* from client;



#Table 6

Create table if not exists site

(

SiteID Int (3),

Primary Key(SiteID),

StartDate Date not null,

SiteAddress Varchar (50) not null,

EndDate Date not null,

S\_BranchID Int (3) not null,

S\_RoofID Int (3),

S\_BuildingID Int (3),

S\_ClientID Int (5),

Constraint FK\_BranchID Foreign Key (S\_BranchID)

References Branch (BranchID),

Constraint FK\_RoofID Foreign Key (S\_RoofID)

References Roof (RoofID),

Constraint FK\_BuildingID Foreign Key (S\_BuildingID)

References Building (BuildingID),

Constraint FK\_ClientID Foreign Key (S\_ClientID)

References Client (ClientID)

);

# Insert values Table 6

INSERT INTO `site` (`SiteID`, `StartDate`, `SiteAddress`, `EndDate`, `S\_BranchID`, `S\_RoofID`, `S\_BuildingID`, `S\_ClientID`) VALUES

(235, '2015-10-12', 'Edinburgh', '2047-10-12', 100, 524, 777, 60555),

(236, '2015-09-22', 'Edinburgh', '2015-10-07', 102, 888, 999, 60333),

(237, '2016-01-14', 'Edinburgh', '2015-07-07', 102, 200, 999, 60333),

(239, '2015-10-12', 'Edinburgh', '2047-10-12', 100, 524, 777, 60555),

(600, '2015-10-09', 'Dublin', '2015-10-26', 1, 501, 200, 50001),

(677, '1982-12-01', 'London', '2015-12-01', 2, 200, 250, 60001),

(888, '1981-07-22', 'Cardiff', '2015-12-01', 10, 506, 2, 60003);

# View Table 6

SELECT \* FROM `site`;

