CREATE DEFINER=`huang`@`%` PROCEDURE `Save\_Address`(

in \_PersonID varchar(30),

in \_Apt\_No varchar(20),

in \_Street\_No varchar(20),

in \_Street\_Name varchar(100),

in \_City varchar(50),

in \_Province varchar(50),

in \_Country varchar(50),

in \_Postcode varchar(20),

in \_Homephone varchar(20),

in \_Living\_Status varchar(50),

in \_Start\_Date DATE,

in \_End\_Date DATE,

in \_Current\_Flag tinyint,

in \_Verify\_Date DATE,

in \_Notes varchar(255)

)

BEGIN

declare totalCount int default 0;

declare \_result varchar(500);

declare \_ErrorCode int default 0;

SELECT COUNT(\*) INTO totalCount FROM Address WHERE

PersonID = \_PersonID AND

COALESCE( Apt\_No, '') = COALESCE( \_Apt\_No, '') AND

Street\_No = \_Street\_No AND

Street\_Name = \_Street\_Name;

if COALESCE(totalCount,0) <> 0 then

set \_result = CONCAT("The address of: ", COALESCE(\_Apt\_No,''), " ", \_Street\_No, " ", \_Street\_Name, " is in the datebase already");

else

insert into Address(

PersonID,

Apt\_No,

Street\_No,

Street\_Name,

City,

Province,

Country,

Postcode,

Homephone,

Living\_Status,

Start\_Date,

End\_Date,

Current\_Flag,

Verify\_Date,

Notes)

values(

\_PersonID,

\_Apt\_No,

\_Street\_No,

\_Street\_Name,

\_City,

\_Province,

\_Country,

\_Postcode,

\_Homephone,

\_Living\_Status,

\_Start\_Date,

\_End\_Date,

\_Current\_Flag,

\_Verify\_Date,

\_Notes);

if @@error\_count > 0 then

set \_ErrorCode = 1;

end if;

set \_result = "Added one address";

end if;

select \_result, \_ErrorCode;

END

CREATE DEFINER=`huang`@`%` PROCEDURE `Save\_Applicant`(

in \_First\_Name varchar(30),

in \_Last\_Name varchar(30),

in \_English\_Name varchar(30),

in \_Gender varchar(10),

in \_Date\_of\_Birth date,

in \_Country\_of\_Birth varchar(20),

in \_Province\_of\_Birth varchar(15),

in \_Citizenship varchar(20),

in \_Tax\_Status varchar(15),

in \_Live\_in\_Canada\_Since date,

in \_Marital\_Status varchar(10),

in \_Cellphone varchar(30),

in \_Email varchar(50),

in \_Bankruptcy tinyint,

in \_Discharge\_Date Date

)

BEGIN

declare totalCount int default 0;

declare \_result varchar(500);

declare \_PersonID varchar(30);

declare \_ErrorCode int default 0;

declare \_Current\_timestamp varchar(20);

SELECT COALESCE( COUNT(\*), 0), PersonID INTO totalCount, \_PERSONID FROM Person WHERE

First\_Name = \_First\_Name AND Last\_Name = \_Last\_Name group by PersonID;

if totalCount = 1 then

update Person

set

English\_Name = \_English\_Name,

Gender = \_Gender,

Date\_of\_Birth = \_Date\_of\_Birth,

Country\_of\_Birth = \_Country\_of\_Birth,

Province\_of\_Birth = \_Province\_of\_Birth,

Citizenship = \_Citizenship,

Tax\_Status = \_Tax\_Status,

Live\_in\_Canada\_Since = \_Live\_in\_Canada\_Since,

Marital\_Status = \_Marital\_Status,

Cellphone = \_Cellphone,

Email = \_Email,

Bankruptcy = \_Bankruptcy,

Discharge\_Date = \_Discharge\_Date

where PersonID = \_PersonID;

if @@error\_count > 0 then

set \_ErrorCode = 2;

end if;

set \_result = CONCAT("This record: ", \_First\_Name, " ", \_Last\_Name, " is in the datebase already with the PersonID of ", \_PersonID);

elseif totalCount = 0 then

SELECT CURRENT\_TIMESTAMP() into \_Current\_timestamp;

set \_PersonID = CONCAT("EON0000",SUBSTR(\_Current\_timestamp,1,4),SUBSTR(\_Current\_timestamp,6,2),SUBSTR(\_Current\_timestamp,9,2),SUBSTR(\_Current\_timestamp,12,2),SUBSTR(\_Current\_timestamp,15,2),SUBSTR(\_Current\_timestamp,18,2));

While exists (Select 1 from Person where PersonID = \_PersonID) Do

Select CURRENT\_TIMESTAMP() into \_Current\_timestamp;

set \_PersonID = CONCAT("EON0000",SUBSTR(\_Current\_timestamp,1,4),SUBSTR(\_Current\_timestamp,6,2),SUBSTR(\_Current\_timestamp,9,2),SUBSTR(\_Current\_timestamp,12,2),SUBSTR(\_Current\_timestamp,15,2),SUBSTR(\_Current\_timestamp,18,2));

End While;

insert into Person(

PersonID,

First\_Name,

Last\_Name,

English\_Name,

Gender,

Date\_of\_Birth,

Country\_of\_Birth,

Province\_of\_Birth,

Citizenship,

Tax\_Status,

Live\_in\_Canada\_Since,

Marital\_Status,

Cellphone,

Email,

Bankruptcy,

Discharge\_Date)

values(

\_PersonID,

\_First\_Name,

\_Last\_Name,

\_English\_Name,

\_Gender,

\_Date\_of\_Birth,

\_Country\_of\_Birth,

\_Province\_of\_Birth,

\_Citizenship,

\_Tax\_Status,

\_Live\_in\_Canada\_Since,

\_Marital\_Status,

\_Cellphone,

\_Email,

\_Bankruptcy,

\_Discharge\_Date);

if @@error\_count > 0 then

set \_ErrorCode = 1;

end if;

set \_result = CONCAT("This record: ", \_First\_Name, " ", \_Last\_Name, " has been inserted into the datebase with PersonID of ", \_PersonID);

end if;

select \_result, \_PersonID, \_ErrorCode;

END

CREATE DEFINER=`huang`@`%` PROCEDURE `Save\_Asset`(

in \_PersonID varchar(30),

in \_Assets\_Type varchar(50),

in \_Market\_Value double,

in \_Institution varchar(50),

in \_Address varchar(200),

in \_Verify\_Date DATE,

in \_Notes varchar(255)

)

BEGIN

declare totalCount int default 0;

declare \_result varchar(500);

declare \_ErrorCode int default 0;

declare \_existing\_Address\_ID varchar(20) default null;

if \_Address is not Null then

SELECT COALESCE(COUNT(\*),0), COALESCE(Address\_ID,0) INTO totalCount, \_existing\_Address\_ID FROM Lookup\_Address Where COALESCE(Full\_address,'') = \_Address group by Address\_ID;

if totalCount = 0 then

insert into Lookup\_Address(

Full\_Address)

values(

\_Address);

if @@error\_count > 0 then

set \_ErrorCode = 1;

end if;

set \_existing\_Address\_ID = last\_insert\_ID();

end if;

end if;

SELECT COALESCE(COUNT(\*),0) INTO totalCount FROM Assets WHERE

PersonID = \_PersonID AND

COALESCE( Assets\_Type, '') = COALESCE( \_Assets\_Type, '') AND

COALESCE( Address\_ID, '') = COALESCE( \_existing\_Address\_ID, '');

if COALESCE(totalCount,0) <> 0 then

set \_result = CONCAT("This asset is in the datebase already");

else

insert into Assets(

PersonID,

Assets\_Type,

Market\_Value,

Institution,

Address\_ID,

Verify\_Date,

Notes

)

values(

\_PersonID,

\_Assets\_Type,

\_Market\_Value,

\_Institution,

\_existing\_Address\_ID,

\_Verify\_Date,

\_Notes);

if @@error\_count > 0 then

set \_ErrorCode = 2;

end if;

set \_result = "Added one asset";

end if;

select \_result, \_ErrorCode;

END

CREATE DEFINER=`huang`@`%` PROCEDURE `Save\_Beneficiary`(

in \_First\_Name varchar(30),

in \_Last\_Name varchar(30),

in \_Gender varchar(10),

in \_Date\_of\_Birth date

)

BEGIN

declare totalCount int default 0;

declare \_result varchar(500);

declare \_PersonID varchar(30);

declare \_ErrorCode int default 0;

declare \_Current\_timestamp varchar(20);

SELECT COALESCE( COUNT(\*), 0), PersonID INTO totalCount, \_PERSONID FROM Person WHERE

First\_Name = \_First\_Name AND Last\_Name = \_Last\_Name group by PersonID;

if totalCount = 1 then

update Person

set Date\_of\_Birth = \_Date\_of\_Birth, Gender = \_Gender

where PersonID = \_PersonID;

if @@error\_count > 0 then

set \_ErrorCode = 2;

end if;

set \_result = CONCAT("This record: ", \_First\_Name, " ", \_Last\_Name, " is in the datebase already with the PersonID of ", \_PersonID);

elseif totalCount = 0 then

SELECT CURRENT\_TIMESTAMP() into \_Current\_timestamp;

set \_PersonID = CONCAT("EON0000",SUBSTR(\_Current\_timestamp,1,4),SUBSTR(\_Current\_timestamp,6,2),SUBSTR(\_Current\_timestamp,9,2),SUBSTR(\_Current\_timestamp,12,2),SUBSTR(\_Current\_timestamp,15,2),SUBSTR(\_Current\_timestamp,18,2));

While exists (Select 1 from Person where PersonID = \_PersonID) Do

Select CURRENT\_TIMESTAMP() into \_Current\_timestamp;

set \_PersonID = CONCAT("EON0000",SUBSTR(\_Current\_timestamp,1,4),SUBSTR(\_Current\_timestamp,6,2),SUBSTR(\_Current\_timestamp,9,2),SUBSTR(\_Current\_timestamp,12,2),SUBSTR(\_Current\_timestamp,15,2),SUBSTR(\_Current\_timestamp,18,2));

End While;

insert into Person(

PersonID,

First\_Name,

Last\_Name,

Date\_of\_Birth,

Gender

)

values(

\_PersonID,

\_First\_Name,

\_Last\_Name,

\_Date\_of\_Birth,

\_Gender

);

if @@error\_count > 0 then

set \_ErrorCode = 1;

end if;

set \_result = CONCAT("This record: ", \_First\_Name, " ", \_Last\_Name, " has been inserted into the datebase with PersonID of ", \_PersonID);

else

set \_result = CONCAT("There are more than 1 record with the name of: ", \_First\_Name, " ", \_Last\_Name, " no record has been inserted");

end if;

select \_result, \_PersonID, \_ErrorCode;

END

CREATE DEFINER=`huang`@`%` PROCEDURE `Save\_Employment`(

in \_PersonID varchar(30),

in \_Employment\_Status varchar(50),

in \_Employer varchar(100),

in \_Industry varchar(100),

in \_Occupation varchar(100),

in \_Unit varchar(20),

in \_Street\_No varchar(20),

in \_Street\_Name varchar(100),

in \_City varchar(50),

in \_Province varchar(50),

in \_Country varchar(50),

in \_Postcode varchar(20),

in \_Workphone varchar(20),

in \_Annual\_Income double,

in \_Start\_Date DATE,

in \_End\_Date DATE,

in \_Current\_Flag BOOLEAN,

in \_Verify\_Date DATE,

in \_Notes varchar(255)

)

BEGIN

declare totalCount int default 0;

declare \_result varchar(500);

declare \_ErrorCode int default 0;

SELECT COALESCE( COUNT(\*), 0) INTO totalCount FROM Employment WHERE

PersonID = \_PersonID AND Employer = \_Employer;

if totalCount = 0 then

insert into Employment(

PersonID,

Employment\_Status,

Employer,

Industry,

Occupation,

Unit,

Street\_No,

Street\_Name,

City,

Province,

Country,

Postcode,

Workphone,

Annual\_Income,

Start\_Date,

End\_Date,

Current\_Flag,

Verify\_Date,

Notes

)

values(

\_PersonID,

\_Employment\_Status,

\_Employer,

\_Industry,

\_Occupation,

\_Unit,

\_Street\_No,

\_Street\_Name,

\_City,

\_Province,

\_Country,

\_Postcode,

\_Workphone,

\_Annual\_Income,

\_Start\_Date,

\_End\_Date,

\_Current\_Flag,

\_verify\_Date,

\_Notes);

if @@error\_count > 0 then

set \_ErrorCode = 1;

end if;

set \_PersonID = last\_insert\_ID();

set \_result = CONCAT("Added one Employment");

else

set \_result = CONCAT("This Employment record is in the datebase already");

end if;

select \_result, \_ErrorCode;

END

CREATE DEFINER=`huang`@`%` PROCEDURE `Save\_ID`(

in \_PersonID varchar(30),

in \_ID\_Type varchar(50),

in \_ID\_Number varchar(50),

in \_Issue\_Date DATE,

in \_Expiry\_Date DATE,

in \_Issue\_Country varchar(50),

in \_Issue\_Province varchar(50),

in \_Current\_Flag BOOLEAN,

in \_Verify\_Date DATE,

in \_Notes varchar(255)

)

BEGIN

declare totalCount int default 0;

declare \_result varchar(500);

declare \_ErrorCode int default 0;

SELECT COUNT(\*) INTO totalCount FROM ID WHERE

COALESCE( ID\_Number, '') = COALESCE( \_ID\_Number, '');

if COALESCE(totalCount,0) <> 0 then

set \_result = CONCAT("The ID of: ", \_ID\_Type, " ", \_ID\_Number, " is in the datebase already");

else

insert into ID(

PersonID,

ID\_Type,

ID\_Number,

Issue\_Date,

Expiry\_Date,

Issue\_Country,

Issue\_Province,

Current\_Flag,

Verify\_Date,

Notes)

values(

\_PersonID,

\_ID\_Type,

\_ID\_Number,

\_Issue\_Date,

\_Expiry\_Date,

\_Issue\_Country,

\_Issue\_Province,

\_Current\_Flag,

\_Verify\_Date,

\_Notes);

if @@error\_count > 0 then

set \_ErrorCode = 1;

end if;

set \_result = "Added one ID";

end if;

select \_result, \_ErrorCode;

END

CREATE DEFINER=`huang`@`%` PROCEDURE `Save\_Liability`(

in \_PersonID varchar(30),

in \_L\_Type varchar(50),

in \_L\_Balance double,

in \_L\_Monthly\_Payment double,

in \_Institution varchar(50),

in \_Address varchar(200),

in \_Verify\_Date DATE,

in \_Notes varchar(255)

)

BEGIN

declare totalCount int default 0;

declare \_result varchar(500);

declare \_ErrorCode int default 0;

declare \_existing\_Address\_ID varchar(20) default null;

if \_Address is not Null then

SELECT COALESCE(COUNT(\*),0), COALESCE(Address\_ID,0) INTO totalCount, \_existing\_Address\_ID FROM Lookup\_Address Where COALESCE(Full\_address,'') = \_Address group by Address\_ID;

end if;

SELECT COALESCE(COUNT(\*),0) INTO totalCount FROM Liabilities WHERE

PersonID = \_PersonID AND

COALESCE( L\_Type, '') = COALESCE( \_L\_Type, '') AND

COALESCE( Address\_ID, '') = COALESCE( \_existing\_Address\_ID, '');

if COALESCE(totalCount,0) <> 0 then

set \_result = CONCAT("This Liability is in the datebase already");

else

insert into Liabilities(

PersonID,

L\_Type,

L\_Balance,

L\_Monthly\_Payment,

Institution,

Address\_ID,

Verify\_Date,

Notes

)

values(

\_PersonID,

\_L\_Type,

\_L\_Balance,

\_L\_Monthly\_Payment,

\_Institution,

\_existing\_Address\_ID,

\_Verify\_Date,

\_Notes);

if @@error\_count > 0 then

set \_ErrorCode = 2;

end if;

set \_result = "Added one Liability";

end if;

select \_result, \_ErrorCode;

END

CREATE DEFINER=`huang`@`%` PROCEDURE `Save\_Spouse`(

in \_First\_Name varchar(30),

in \_Last\_Name varchar(30),

in \_Date\_of\_Birth date

)

BEGIN

declare totalCount int default 0;

declare \_result varchar(500);

declare \_PersonID varchar(30);

declare \_ErrorCode int default 0;

declare \_Current\_timestamp varchar(20);

SELECT COALESCE( COUNT(\*), 0), PersonID INTO totalCount, \_PERSONID FROM Person WHERE

First\_Name = \_First\_Name AND Last\_Name = \_Last\_Name group by PersonID;

if totalCount = 1 then

update Person

set Date\_of\_Birth = \_Date\_of\_Birth

where PersonID = \_PersonID;

if @@error\_count > 0 then

set \_ErrorCode = 2;

end if;

set \_result = CONCAT("This record: ", \_First\_Name, " ", \_Last\_Name, " is in the datebase already with the PersonID of ", \_PersonID);

elseif totalCount = 0 then

SELECT CURRENT\_TIMESTAMP() into \_Current\_timestamp;

set \_PersonID = CONCAT("EON0000",SUBSTR(\_Current\_timestamp,1,4),SUBSTR(\_Current\_timestamp,6,2),SUBSTR(\_Current\_timestamp,9,2),SUBSTR(\_Current\_timestamp,12,2),SUBSTR(\_Current\_timestamp,15,2),SUBSTR(\_Current\_timestamp,18,2));

While exists (Select 1 from Person where PersonID = \_PersonID) Do

Select CURRENT\_TIMESTAMP() into \_Current\_timestamp;

set \_PersonID = CONCAT("EON0000",SUBSTR(\_Current\_timestamp,1,4),SUBSTR(\_Current\_timestamp,6,2),SUBSTR(\_Current\_timestamp,9,2),SUBSTR(\_Current\_timestamp,12,2),SUBSTR(\_Current\_timestamp,15,2),SUBSTR(\_Current\_timestamp,18,2));

End While;

insert into Person(

PersonID,

First\_Name,

Last\_Name,

Date\_of\_Birth

)

values(

\_PersonID,

\_First\_Name,

\_Last\_Name,

\_Date\_of\_Birth

);

if @@error\_count > 0 then

set \_ErrorCode = 1;

end if;

set \_result = CONCAT("This record: ", \_First\_Name, " ", \_Last\_Name, " has been inserted into the datebase with PersonID of ", \_PersonID);

else

set \_result = CONCAT("There are more than 1 record with the name of: ", \_First\_Name, " ", \_Last\_Name, " no record has been inserted");

end if;

select \_result, \_PersonID, \_ErrorCode;

END

CREATE DEFINER=`huang`@`%` PROCEDURE `Save\_Trustee`(

in \_First\_Name varchar(30),

in \_Last\_Name varchar(30)

)

BEGIN

declare totalCount int default 0;

declare \_result varchar(500);

declare \_PersonID varchar(30);

declare \_ErrorCode int default 0;

declare \_Current\_timestamp varchar(20);

SELECT COALESCE( COUNT(\*), 0), PersonID INTO totalCount, \_PERSONID FROM Person WHERE

First\_Name = \_First\_Name

AND Last\_Name = \_Last\_Name group by PersonID;

if totalCount <> 0 then

set \_result = CONCAT("This record: ", \_First\_Name, " ", \_Last\_Name, " is in the datebase already with the PersonID of ", \_PersonID);

else

SELECT CURRENT\_TIMESTAMP() into \_Current\_timestamp;

set \_PersonID = CONCAT("EON0000",SUBSTR(\_Current\_timestamp,1,4),SUBSTR(\_Current\_timestamp,6,2),SUBSTR(\_Current\_timestamp,9,2),SUBSTR(\_Current\_timestamp,12,2),SUBSTR(\_Current\_timestamp,15,2),SUBSTR(\_Current\_timestamp,18,2));

While exists (Select 1 from Person where PersonID = \_PersonID) Do

Select CURRENT\_TIMESTAMP() into \_Current\_timestamp;

set \_PersonID = CONCAT("EON0000",SUBSTR(\_Current\_timestamp,1,4),SUBSTR(\_Current\_timestamp,6,2),SUBSTR(\_Current\_timestamp,9,2),SUBSTR(\_Current\_timestamp,12,2),SUBSTR(\_Current\_timestamp,15,2),SUBSTR(\_Current\_timestamp,18,2));

End While;

insert into Person(

PersonID,

First\_Name,

Last\_Name)

values(

\_PersonID,

\_First\_Name,

\_Last\_Name);

if @@error\_count > 0 then

set \_ErrorCode = 1;

end if;

set \_result = CONCAT("This record: ", \_First\_Name, " ", \_Last\_Name, " has been inserted into the datebase with PersonID of ", \_PersonID);

end if;

select \_result, \_PersonID, \_ErrorCode;

END