using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using Microsoft.Xrm.Sdk;

using Microsoft.Xrm.Sdk.Client;

using Microsoft.Xrm.Sdk.Query;

using Microsoft.Xrm.Sdk.Discovery;

using Microsoft.Xrm.Sdk.XmlNamespaces;

using Microsoft.Xrm.Client.Services;

using System.Configuration;

using Microsoft.Xrm.Sdk.Messages;

using Microsoft.Xrm.Sdk.Metadata;

using Microsoft.Xrm.Sdk.WebServiceClient;

using System.ServiceModel;

using System.ServiceModel.Security;

namespace ConsoleAppTest

{

class Program

{

static void Main(string[] args)

{

OrganizationService service;

var connectionstring = GetWindowsIntegratedSecurityConnectionString();

var serverConnection = new ServerConnection(connectionstring);

using (service = new OrganizationService(serverConnection.CRMConnection))

{

Guid entityId = new Guid("08C3423D-DAD9-E511-93F1-9ABE942A7E29");//{472AA958-BFB5-E511-93F1-9ABE942A7E29} 24EB7CBB-B5B5-E511-93F1-9ABE942A7E29

Entity ChiTietHD = service.Retrieve("new\_thuadatcanhtac", entityId, new ColumnSet(new string[] { "new\_name" }));

//Guid entityId = ChiTietHD.Id;

//if (ChiTietHD.Contains("new\_thuadatcanhtac"))

//{

//traceService.Trace("Begin plugin");

//if (context.MessageName.ToUpper() == "CREATE")

ChiTietHD = service.Retrieve("new\_thuadatcanhtac", entityId, new ColumnSet(new string[] { "new\_vutrong", "new\_loaigocmia", "new\_mucdichsanxuatmia", "new\_giongmia", "new\_thuadat", "createdon", "new\_hopdongdautumia", "new\_khachhang", "new\_khachhangdoanhnghiep", "new\_thamgiamohinhkhuyennong", "new\_dientichthucte", "new\_tuoimia", "new\_dientichhopdong", "new\_dinhmucphanbontoithieu" }));

DateTime ngaytao = ChiTietHD.GetAttributeValue<DateTime>("createdon");

EntityReference thuadatEntityRef = ChiTietHD.GetAttributeValue<EntityReference>("new\_thuadat");

Guid thuadatId = thuadatEntityRef.Id;

Entity thuadatObj = service.Retrieve("new\_thuadat", thuadatId, new ColumnSet(new string[] { "new\_nhomdat", "new\_loaisohuudat", "new\_vungdialy", "new\_nhomculy" }));

EntityReference giongmiaEntityRef = null;

Guid giongmiaId = new Guid();

Entity giongmiaObj = null;

if (ChiTietHD.Attributes.Contains("new\_giongmia"))

{

giongmiaEntityRef = ChiTietHD.GetAttributeValue<EntityReference>("new\_giongmia");

giongmiaId = giongmiaEntityRef.Id;

giongmiaObj = service.Retrieve("new\_giongmia", giongmiaId, new ColumnSet(new string[] { "new\_nhomgiong", "new\_name" }));

}

EntityReference HDDTmiaRef = ChiTietHD.GetAttributeValue<EntityReference>("new\_hopdongdautumia");

Guid DHDTmiaId = HDDTmiaRef.Id;

Entity HDDTmia = service.Retrieve("new\_hopdongdautumia", DHDTmiaId, new ColumnSet(new string[] { "new\_vudautu" }));

EntityReference vudautuRef = HDDTmia.GetAttributeValue<EntityReference>("new\_vudautu");

if (vudautuRef == null || vudautuRef.Id == Guid.Empty)

{

throw new InvalidPluginExecutionException("Trong HĐĐT mía chưa có Vụ đầu tư !");

}

else

{

Guid vuDTId = vudautuRef.Id;

EntityCollection resultCol = FindCSDTtrongmia(service, ChiTietHD);

Entity mCSDT = null;

if (resultCol != null && resultCol.Entities.Count > 0)

{

foreach (Entity a in resultCol.Entities)

{

if (a.Contains("new\_vutrong\_vl")) // Vu trong

{

if (ChiTietHD.Contains("new\_vutrong"))

{

if (a["new\_vutrong\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_vutrong"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_loaigocmia\_vl")) // Loai goc mia

{

if (ChiTietHD.Contains("new\_loaigocmia"))

{

if (a["new\_loaigocmia\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_loaigocmia"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_mucdichsanxuatmia\_vl")) // Muc dich san xuat mia

{

if (ChiTietHD.Contains("new\_mucdichsanxuatmia"))

{

if (a["new\_mucdichsanxuatmia\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_mucdichsanxuatmia"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_nhomdat\_vl")) // Nhom dat

{

if (thuadatObj.Attributes.Contains("new\_nhomdat"))

{

if (a["new\_nhomdat\_vl"].ToString().IndexOf(((OptionSetValue)thuadatObj["new\_nhomdat"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_loaisohuudat\_vl")) // Loai chu so huu

{

if (thuadatObj.Attributes.Contains("new\_loaisohuudat"))

{

if (a["new\_loaisohuudat\_vl"].ToString().IndexOf(((OptionSetValue)thuadatObj["new\_loaisohuudat"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_nhomgiongmia\_vl")) // Nhom giong mia

{

if (giongmiaObj.Attributes.Contains("new\_nhomgiong"))

{

if (a["new\_nhomgiongmia\_vl"].ToString().IndexOf(((OptionSetValue)giongmiaObj["new\_nhomgiong"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

//traceService.Trace("tuoi mia CTHD " + (bool)ChiTietHD["new\_tuoimia"]);

//traceService.Trace("tuoi mia CSDT " + (bool)a["new\_tuoi"]);

//if (a.Contains("new\_tuoi")) // Tuoi mia

//{

// if (ChiTietHD.Attributes.Contains("new\_tuoimia"))

// {

// if ((bool)a["new\_tuoi"] != (bool)ChiTietHD["new\_tuoimia"])

// continue;

// }

// else

// continue;

//}

// NHom khach hang

bool co = false;

if (ChiTietHD.Attributes.Contains("new\_khachhang"))

{

EntityCollection dsNhomKH = RetrieveNNRecord(service, "new\_nhomkhachhang", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomkhachhang", new ColumnSet(new string[] { "new\_nhomkhachhangid" }), "new\_chinhsachdautuid", a.Id);

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhang").Id;

Entity khObj = service.Retrieve("contact", khId, new ColumnSet(new string[] { "fullname", "new\_nhomkhachhang", "new\_nangsuatbinhquan" }));

if (khObj.Attributes.Contains("new\_nhomkhachhang"))

{

Guid nhomkhId = khObj.GetAttributeValue<EntityReference>("new\_nhomkhachhang").Id;

Entity nhomKHHDCT = service.Retrieve("new\_nhomkhachhang", nhomkhId, new ColumnSet(new string[] { "new\_name" }));

if (dsNhomKH != null && dsNhomKH.Entities.Count > 0)

{

foreach (Entity nhomKH in dsNhomKH.Entities)

{

if (nhomKHHDCT.Id == nhomKH.Id)

{

co = true;

break;

}

}

}

else

{

co = true;

}

}

else //neu khong co NHomKH trong CTHD

{

if (dsNhomKH == null || dsNhomKH.Entities.Count() == 0)

{

co = true;

}

}

}

if (ChiTietHD.Attributes.Contains("new\_khachhangdoanhnghiep"))

{

EntityCollection dsNhomKH = RetrieveNNRecord(service, "new\_nhomkhachhang", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomkhachhang", new ColumnSet(new string[] { "new\_nhomkhachhangid" }), "new\_chinhsachdautuid", a.Id);

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhangdoanhnghiep").Id;

Entity khObj = service.Retrieve("account", khId, new ColumnSet(new string[] { "name", "new\_nhomkhachhang" }));

if (khObj.Attributes.Contains("new\_nhomkhachhang"))

{

Guid nhomkhId = khObj.GetAttributeValue<EntityReference>("new\_nhomkhachhang").Id;

Entity nhomKHHDCT = service.Retrieve("new\_nhomkhachhang", nhomkhId, new ColumnSet(new string[] { "new\_name" }));

if (dsNhomKH != null && dsNhomKH.Entities.Count > 0)

{

foreach (Entity nhomKH in dsNhomKH.Entities)

{

if (nhomKHHDCT.Id == nhomKH.Id)

{

co = true;

break;

}

}

}

else

{

co = true;

}

}

else //neu khong co NHomKH trong CTHD

{

if (dsNhomKH == null || dsNhomKH.Entities.Count() == 0)

{

co = true;

}

}

}

if (co == false)

continue;

//Vung dia ly

co = false;

EntityCollection dsVungDL = RetrieveNNRecord(service, "new\_vung", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_vung", new ColumnSet(new string[] { "new\_vungid" }), "new\_chinhsachdautuid", a.Id);

if (thuadatObj.Attributes.Contains("new\_vungdialy"))

{

Guid vungdlId = thuadatObj.GetAttributeValue<EntityReference>("new\_vungdialy").Id;

Entity vungDL = service.Retrieve("new\_vung", vungdlId, new ColumnSet(new string[] { "new\_name" }));

if (dsVungDL != null && dsVungDL.Entities.Count > 0)

{

foreach (Entity vungDL1 in dsVungDL.Entities)

{

if (vungDL.Id == vungDL1.Id)

{

co = true;

break;

}

}

}

else

{

co = true;

}

}

else //neu khong co VungDiaLy trong CTHD

{

if (dsVungDL == null || dsVungDL.Entities.Count() == 0)

{

co = true;

}

}

if (co == false)

continue;

// Giong mia

co = false;

EntityCollection dsGiongmia = RetrieveNNRecord(service, "new\_giongmia", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_giongmia", new ColumnSet(new string[] { "new\_giongmiaid" }), "new\_chinhsachdautuid", a.Id);

if (dsGiongmia != null && dsGiongmia.Entities.Count > 0)

{

foreach (Entity giongmia in dsGiongmia.Entities)

{

if (giongmiaObj.Id == giongmia.Id)

{

co = true;

break;

}

}

}

else

{

co = true;

}

if (co == false)

continue;

// Khuyen khich phat trien

co = false;

EntityCollection dsKKPTHDCT = RetrieveNNRecord(service, "new\_khuyenkhichphattrien", "new\_thuadatcanhtac", "new\_new\_chitiethddtmia\_new\_khuyenkhichpt", new ColumnSet(new string[] { "new\_khuyenkhichphattrienid" }), "new\_thuadatcanhtacid", ChiTietHD.Id);

EntityCollection dsKKPTCSDT = RetrieveNNRecord(service, "new\_khuyenkhichphattrien", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_khuyenkhichphatt", new ColumnSet(new string[] { "new\_khuyenkhichphattrienid" }), "new\_chinhsachdautuid", a.Id);

if (dsKKPTHDCT != null && dsKKPTHDCT.Entities.Count > 0)

{

if (dsKKPTCSDT != null && dsKKPTCSDT.Entities.Count > 0)

{

foreach (Entity kkpt1 in dsKKPTHDCT.Entities)

{

foreach (Entity kkpt2 in dsKKPTCSDT.Entities)

{

//neu tim thay kkpt1 nam trong danh sach dsKKPTCSDT thi thoat khoi for

if (kkpt1.Id == kkpt2.Id)

{

co = true;

break;

}

}

if (co)

{

//thoat vong for thu 1

break;

}

}

}

else

{

co = true;

}

}

else //neu khong co KKPT trong CTHD

{

if (dsKKPTCSDT == null || dsKKPTCSDT.Entities.Count() == 0)

{

co = true;

}

}

if (co == false)

continue;

// Nhom cu ly

co = false;

EntityCollection dsNHomCL = RetrieveNNRecord(service, "new\_nhomculy", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomculy", new ColumnSet(new string[] { "new\_nhomculyid" }), "new\_chinhsachdautuid", a.Id);

if (thuadatObj.Attributes.Contains("new\_nhomculy"))

{

Guid nhomclId = thuadatObj.GetAttributeValue<EntityReference>("new\_nhomculy").Id;

Entity nhomCL = service.Retrieve("new\_nhomculy", nhomclId, new ColumnSet(new string[] { "new\_name" }));

if (dsNHomCL != null && dsNHomCL.Entities.Count > 0)

{

foreach (Entity nhomCL1 in dsNHomCL.Entities)

{

if (nhomCL.Id == nhomCL1.Id)

{

co = true;

break;

}

}

}

else

{

co = true;

}

}

else //neu khong co NHomCL trong CTHD

{

if (dsNHomCL == null || dsNHomCL.Entities.Count() == 0)

{

co = true;

}

}

if (co == false)

continue;

// Mo hinh khuyen nong

co = false;

EntityCollection dsMHKN = RetrieveNNRecord(service, "new\_mohinhkhuyennong", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_mohinhkhuyennong", new ColumnSet(new string[] { "new\_mohinhkhuyennongid" }), "new\_chinhsachdautuid", a.Id);

if (ChiTietHD.Attributes.Contains("new\_thamgiamohinhkhuyennong"))

{

EntityReference mhknEntityRef = ChiTietHD.GetAttributeValue<EntityReference>("new\_thamgiamohinhkhuyennong");

Guid mhknId = mhknEntityRef.Id;

Entity mhkn = service.Retrieve("new\_mohinhkhuyennong", mhknId, new ColumnSet(new string[] { "new\_name" }));

if (dsMHKN != null && dsMHKN.Entities.Count() > 0)

{

foreach (Entity mhkn1 in dsMHKN.Entities)

{

if (mhkn.Id == mhkn1.Id)

{

co = true;

break;

}

}

}

else

{

co = true;

}

}

else //neu khong co MNKH trong CTHD

{

if (dsMHKN == null || dsMHKN.Entities.Count() == 0)

{

co = true;

}

}

if (co == false)

continue;

// NHom nang suat

co = false;

EntityCollection dsNhomNS = RetrieveNNRecord(service, "new\_nhomnangsuat", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomnangsuat", new ColumnSet(new string[] { "new\_nhomnangsuatid", "new\_nangsuattu", "new\_nangsuatden" }), "new\_chinhsachdautuid", a.Id);

if (ChiTietHD.Attributes.Contains("new\_khachhang"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhang").Id;

Entity khObj = service.Retrieve("contact", khId, new ColumnSet(new string[] { "fullname", "new\_nangsuatbinhquan" }));

if (khObj.Attributes.Contains("new\_nangsuatbinhquan"))

{

decimal nangsuatbq = khObj.GetAttributeValue<decimal>("new\_nangsuatbinhquan");

if (dsNhomNS != null && dsNhomNS.Entities.Count() > 0)

{

foreach (Entity mhkn1 in dsNhomNS.Entities)

{

if (mhkn1.Attributes.Contains("new\_nangsuattu") && mhkn1.Attributes.Contains("new\_nangsuatden"))

{

decimal nangsuattu = mhkn1.GetAttributeValue<decimal>("new\_nangsuattu");

decimal nangsuatden = mhkn1.GetAttributeValue<decimal>("new\_nangsuatden");

if ((nangsuatbq >= nangsuattu) && (nangsuatbq <= nangsuatden))

{

co = true;

break;

}

}

}

}

else

{

co = true;

}

}

else

{

if (dsNhomNS == null || dsNhomNS.Entities.Count() == 0)

{

co = true;

}

}

}

if (ChiTietHD.Attributes.Contains("new\_khachhangdoanhnghiep"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhangdoanhnghiep").Id;

Entity khObj = service.Retrieve("account", khId, new ColumnSet(new string[] { "name", "new\_nangsuatbinhquan" }));

if (khObj.Attributes.Contains("new\_nangsuatbinhquan"))

{

decimal nangsuatbq = khObj.GetAttributeValue<decimal>("new\_nangsuatbinhquan");

if (dsNhomNS != null && dsNhomNS.Entities.Count() > 0)

{

foreach (Entity mhkn1 in dsNhomNS.Entities)

{

if (mhkn1.Attributes.Contains("new\_nangsuattu") && mhkn1.Attributes.Contains("new\_nangsuatden"))

{

decimal nangsuattu = mhkn1.GetAttributeValue<decimal>("new\_nangsuattu");

decimal nangsuatden = mhkn1.GetAttributeValue<decimal>("new\_nangsuatden");

if ((nangsuatbq >= nangsuattu) && (nangsuatbq <= nangsuatden))

{

co = true;

break;

}

}

}

}

else

{

co = true;

}

}

else

{

if (dsNhomNS == null || dsNhomNS.Entities.Count() == 0)

{

co = true;

}

}

}

if (co == false)

continue;

mCSDT = a;

break;

}

}

if (mCSDT != null && mCSDT.Id != Guid.Empty)

{

// ------Gan vao Chi tiet HDDT mia

EntityReference csdtRef = new EntityReference("new\_chinhsachdautu", mCSDT.Id);

ChiTietHD.Attributes.Add("new\_chinhsachdautu", csdtRef);

service.Update(ChiTietHD);

// -------Gan ty le thu hoi von du kien

// Lay nhung tylethuhoivon trong chinh sach dau tu

string fetchTLTHV =

@"<fetch version='1.0' output-format='xml-platform' mapping='logical' distinct='false'>

<entity name='new\_tilethuhoivon'>

<attribute name='new\_name' />

<attribute name='new\_phantramtilethuhoi' />

<attribute name='new\_nam' />

<attribute name='new\_chinhsachdautu' />

<attribute name='new\_sotien' />

<attribute name='new\_tilethuhoivonid' />

<order attribute='new\_nam' descending='false' />

<link-entity name='new\_chinhsachdautu' from='new\_chinhsachdautuid' to='new\_chinhsachdautu' alias='ac'>

<filter type='and'>

<condition attribute='statecode' operator='eq' value='0' />

<condition attribute='new\_chinhsachdautuid' operator='eq' uitype='new\_chinhsachdautu' value='{0}' />

</filter>

</link-entity>

</entity>

</fetch>";

Guid csdtKQ = mCSDT.Id;

fetchTLTHV = string.Format(fetchTLTHV, csdtKQ);

EntityCollection collTLTHV = service.RetrieveMultiple(new FetchExpression(fetchTLTHV));

List<Entity> listTLTHV = collTLTHV.Entities.ToList<Entity>();

Entity csdtKQEntity = service.Retrieve("new\_chinhsachdautu", csdtKQ, new ColumnSet(new string[] { "new\_dinhmucdautuhoanlai", "new\_name", "new\_loailaisuatcodinhthaydoi", "new\_muclaisuatdautu", "new\_cachtinhlai", "new\_dinhmucdautukhonghoanlai", "new\_dinhmucphanbontoithieu" }));

foreach (Entity TLTHV in listTLTHV)

{

Entity tlthvdkHDCT = new Entity("new\_tylethuhoivondukien");

EntityReference vudautuEntityRef = HDDTmia.GetAttributeValue<EntityReference>("new\_vudautu");

EntityReference hdctEntityRef = new EntityReference("new\_thuadatcanhtac", entityId);

if (TLTHV.Attributes.Contains("new\_phantramtilethuhoi") && TLTHV.Attributes.Contains("new\_nam") && csdtKQEntity.Attributes.Contains("new\_dinhmucdautuhoanlai"))

{

string tenTLTHVDK = "Năm " + TLTHV.GetAttributeValue<int>("new\_nam").ToString();

decimal tyle = (TLTHV.Contains("new\_phantramtilethuhoi") ? (decimal)TLTHV["new\_phantramtilethuhoi"] : 0);

decimal dientichtt = (ChiTietHD.Contains("new\_dientichthucte") ? (decimal)ChiTietHD["new\_dientichthucte"] : 0);

decimal dinhmucDThl = (csdtKQEntity.Contains("new\_dinhmucdautuhoanlai") ? csdtKQEntity.GetAttributeValue<Money>("new\_dinhmucdautuhoanlai").Value : 0);

decimal sotien = 0;

sotien = (dinhmucDThl \* dientichtt \* tyle) / 100;

Money sotienM = new Money(sotien);

tlthvdkHDCT.Attributes.Add("new\_name", tenTLTHVDK);

tlthvdkHDCT.Attributes.Add("new\_loaityle", new OptionSetValue(100000000));

tlthvdkHDCT.Attributes.Add("new\_chitiethddtmia", hdctEntityRef);

tlthvdkHDCT.Attributes.Add("new\_vudautu", vudautuEntityRef);

tlthvdkHDCT.Attributes.Add("new\_tylephantram", tyle);

tlthvdkHDCT.Attributes.Add("new\_sotienthuhoi", sotienM);

service.Create(tlthvdkHDCT);

}

}

// ------End Gan vao ty le thu hoi von du kien

//EntityReference vudautuRef = HDDTmia.GetAttributeValue<EntityReference>("new\_vudautu");

//Guid vuDTId = vudautuRef.Id;

// Lay thong so vu dau tu

string fetchTSVDT =

@"<fetch version='1.0' output-format='xml-platform' mapping='logical' distinct='false'>

<entity name='new\_thongsotheovudautu'>

<attribute name='new\_name' />

<attribute name='createdon' />

<attribute name='new\_vudautu' />

<attribute name='new\_loai' />

<attribute name='new\_giatri' />

<attribute name='new\_giatien' />

<attribute name='new\_apdungtu' />

<attribute name='new\_thongsotheovudautuid' />

<order attribute='new\_name' descending='false' />

<filter type='and'>

<condition attribute='statecode' operator='eq' value='0' />

<condition attribute='new\_vudautu' operator='eq' uitype='new\_vudautu' value='{0}' />

</filter>

</entity>

</fetch>";

fetchTSVDT = string.Format(fetchTSVDT, vuDTId);

EntityCollection collTSVDT = service.RetrieveMultiple(new FetchExpression(fetchTSVDT));

List<Entity> listTSVDT = collTSVDT.Entities.ToList<Entity>();

// ------ Gan NHom du lieu Lai suat

if (collTSVDT.Entities.Count > 0)

{

// Loai lai suat

if (csdtKQEntity.Attributes.Contains("new\_loailaisuatcodinhthaydoi"))

{

bool loails = csdtKQEntity.GetAttributeValue<bool>("new\_loailaisuatcodinhthaydoi");

if (ChiTietHD.Attributes.Contains("new\_loailaisuat")) // Loai lai suat 100,000,000: co dinh /// 100,000,001: thay doi

{

if (loails == false) // ls thay doi

{

ChiTietHD.Attributes["new\_loailaisuat"] = new OptionSetValue(100000001);

}

else // ls co dinh

{

ChiTietHD.Attributes["new\_loailaisuat"] = new OptionSetValue(100000000);

}

}

else

{

if (loails == false)

{

ChiTietHD.Attributes.Add("new\_loailaisuat", new OptionSetValue(100000001));

}

else

{

ChiTietHD.Attributes.Add("new\_loailaisuat", new OptionSetValue(100000000));

}

}

}

// Muc lai suat

if (csdtKQEntity.Attributes.Contains("new\_loailaisuatcodinhthaydoi"))

{

bool loails = csdtKQEntity.GetAttributeValue<bool>("new\_loailaisuatcodinhthaydoi");

if (loails == false) // ls thay doi

{

decimal mucls = (csdtKQEntity.Contains("new\_muclaisuatdautu") ? (decimal)csdtKQEntity["new\_muclaisuatdautu"] : 0);

if (ChiTietHD.Attributes.Contains("new\_laisuat"))

{

ChiTietHD.Attributes["new\_laisuat"] = mucls;

}

else

{

ChiTietHD.Attributes.Add("new\_laisuat", mucls);

}

}

else // ls co dinh

{

foreach (Entity TSVDT in listTSVDT)

{

if (TSVDT.GetAttributeValue<OptionSetValue>("new\_loai").Value == 100000001) //100,000,001 : Loai ls

{

if (TSVDT.Attributes.Contains("new\_giatri"))

{

decimal mucls = TSVDT.GetAttributeValue<decimal>("new\_giatri");

if (ChiTietHD.Attributes.Contains("new\_laisuat"))

{

ChiTietHD.Attributes["new\_laisuat"] = mucls;

}

else

{

ChiTietHD.Attributes.Add("new\_laisuat", mucls);

}

break;

}

}

}

}

}

if (csdtKQEntity.Attributes.Contains("new\_cachtinhlai"))

{

OptionSetValue cachlinhlai = csdtKQEntity.GetAttributeValue<OptionSetValue>("new\_cachtinhlai");

if (ChiTietHD.Attributes.Contains("new\_cachtinhlai")) // Cach tinh lai

{

ChiTietHD.Attributes["new\_cachtinhlai"] = cachlinhlai;

}

else

{

ChiTietHD.Attributes.Add("new\_cachtinhlai", cachlinhlai);

}

}

// ------ End nhom du lieu Gan Lai suat

// -------- Gan nhom du lieu Dinh muc

foreach (Entity TSVDT in listTSVDT) // Gia mia du kien

{

if (TSVDT.GetAttributeValue<OptionSetValue>("new\_loai").Value == 100000004) //100,000,004 : Gia mia du kien

{

if (TSVDT.Attributes.Contains("new\_giatien"))

{

Money giamiadk = TSVDT.GetAttributeValue<Money>("new\_giatien");

if (ChiTietHD.Attributes.Contains("new\_giamiadukien")) // Gia mia du kien

{

ChiTietHD.Attributes["new\_giamiadukien"] = giamiadk;

}

else

{

ChiTietHD.Attributes.Add("new\_giamiadukien", giamiadk);

}

break;

}

}

}

}

if (csdtKQEntity.Attributes.Contains("new\_dinhmucdautuhoanlai")) // Dau tu hoan lai

{

decimal dientichhd = (ChiTietHD.Contains("new\_dientichhopdong") ? (decimal)ChiTietHD["new\_dientichhopdong"] : 0);

decimal dongiaDTHL = csdtKQEntity.GetAttributeValue<Money>("new\_dinhmucdautuhoanlai").Value;

decimal dinhmucDTHL = dongiaDTHL \* dientichhd;

Money MdongiaDT = csdtKQEntity.GetAttributeValue<Money>("new\_dinhmucdautuhoanlai");

Money MdinhmucDT = new Money(dinhmucDTHL);

if (ChiTietHD.Attributes.Contains("new\_dongiadautuhoanlai"))

{

ChiTietHD.Attributes["new\_dongiadautuhoanlai"] = MdongiaDT;

}

else

{

ChiTietHD.Attributes.Add("new\_dongiadautuhoanlai", MdongiaDT);

}

if (ChiTietHD.Attributes.Contains("new\_dinhmucdautuhoanlai"))

{

ChiTietHD.Attributes["new\_dinhmucdautuhoanlai"] = MdinhmucDT;

}

else

{

ChiTietHD.Attributes.Add("new\_dinhmucdautuhoanlai", MdinhmucDT);

}

}

// ----------------- DINH MUC KHONG HOAN LAI

decimal dinhmucbs = 0;

// ------------ Tìm CSDT bổ sung

string fetchCSDTBS =

@"<fetch version='1.0' output-format='xml-platform' mapping='logical' distinct='false'>

<entity name='new\_chinhsachdautuchitiet'>

<attribute name='new\_chinhsachdautuchitietid' />

<attribute name='new\_name' />

<attribute name='createdon' />

<attribute name='new\_nhomkhachhang' />

<attribute name='new\_giongmia' />

<attribute name='new\_nhomnangsuat' />

<attribute name='new\_khuyenkhichphattrien' />

<attribute name='new\_mohinhkhuyennong' />

<attribute name='new\_nhomculy' />

<attribute name='new\_vungdialy' />

<attribute name='new\_sotienbosung' />

<order attribute='new\_name' descending='false' />

<filter type='and'>

<condition attribute='statecode' operator='eq' value='0' />

<condition attribute='new\_vudautu' operator='eq' value='{0}' />

<condition attribute='new\_tungay' operator='on-or-before' value='{1}' />

<condition attribute='new\_denngay' operator='on-or-after' value='{2}' />

</filter>

</entity>

</fetch>";

fetchCSDTBS = string.Format(fetchCSDTBS, vuDTId, ngaytao, ngaytao);

EntityCollection resultCSDTBS = service.RetrieveMultiple(new FetchExpression(fetchCSDTBS));

foreach (Entity csdtbs in resultCSDTBS.Entities)

{

// NHom khach hang

bool phuhop = true;

if (ChiTietHD.Attributes.Contains("new\_khachhang"))

{

if (csdtbs.Attributes.Contains("new\_nhomkhachhang"))

{

EntityReference nhomkhCSDTBSRef = csdtbs.GetAttributeValue<EntityReference>("new\_nhomkhachhang");

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhang").Id;

Entity khObj = service.Retrieve("contact", khId, new ColumnSet(new string[] { "fullname", "new\_nhomkhachhang" }));

if (khObj.Attributes.Contains("new\_nhomkhachhang"))

{

Guid nhomkhCSDTBSId = nhomkhCSDTBSRef.Id;

Guid nhomkhId = khObj.GetAttributeValue<EntityReference>("new\_nhomkhachhang").Id;

if (nhomkhId != nhomkhCSDTBSId)

{

phuhop = false;

}

}

else //neu khong co NHomKH trong CTHD

{

phuhop = false;

}

}

}

if (ChiTietHD.Attributes.Contains("new\_khachhangdoanhnghiep"))

{

if (csdtbs.Attributes.Contains("new\_nhomkhachhang"))

{

EntityReference nhomkhCSDTBSRef = csdtbs.GetAttributeValue<EntityReference>("new\_nhomkhachhang");

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhangdoanhnghiep").Id;

Entity khObj = service.Retrieve("account", khId, new ColumnSet(new string[] { "name", "new\_nhomkhachhang" }));

if (khObj.Attributes.Contains("new\_nhomkhachhang"))

{

Guid nhomkhCSDTBSId = nhomkhCSDTBSRef.Id;

Guid nhomkhId = khObj.GetAttributeValue<EntityReference>("new\_nhomkhachhang").Id;

if (nhomkhId != nhomkhCSDTBSId)

{

phuhop = false;

}

}

else //neu khong co NHomKH trong CTHD

{

phuhop = false;

}

}

}

if (phuhop == false)

continue;

// Giong mia

phuhop = true;

if (csdtbs.Attributes.Contains("new\_giongmia"))

{

EntityReference giongmiaCSDTBSRef = csdtbs.GetAttributeValue<EntityReference>("new\_giongmia");

if (giongmiaEntityRef != null && giongmiaEntityRef.Id != Guid.Empty)

{

Guid giongmiaCSDTBSId = giongmiaCSDTBSRef.Id;

if (giongmiaId != giongmiaCSDTBSId)

{

phuhop = false;

}

}

else //neu khong co Giongmia trong CTHD

{

phuhop = false;

}

}

if (phuhop == false)

continue;

// NHom nang suat

phuhop = true;

if (ChiTietHD.Attributes.Contains("new\_khachhang"))

{

if (csdtbs.Attributes.Contains("new\_nhomnangsuat"))

{

EntityReference nhomnangsuatCSDTBSRef = csdtbs.GetAttributeValue<EntityReference>("new\_nhomnangsuat");

Guid nhomnangsuatCSDTBSRefId = nhomnangsuatCSDTBSRef.Id;

Entity nhomnangsuatCSDTBS = service.Retrieve("new\_nhomnangsuat", nhomnangsuatCSDTBSRefId, new ColumnSet(new string[] { "new\_nangsuattu", "new\_nangsuatden" }));

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhang").Id;

Entity khObj = service.Retrieve("contact", khId, new ColumnSet(new string[] { "fullname", "new\_nhomkhachhang", "new\_nangsuatbinhquan" }));

if (khObj.Attributes.Contains("new\_nangsuatbinhquan") && nhomnangsuatCSDTBS.Attributes.Contains("new\_nangsuattu") && nhomnangsuatCSDTBS.Attributes.Contains("new\_nangsuatden"))

{

decimal nangsuatbq = khObj.GetAttributeValue<decimal>("new\_nangsuatbinhquan");

decimal nangsuattu = nhomnangsuatCSDTBS.GetAttributeValue<decimal>("new\_nangsuattu");

decimal nangsuatden = nhomnangsuatCSDTBS.GetAttributeValue<decimal>("new\_nangsuatden");

if (!((nangsuatbq >= nangsuattu) && (nangsuatbq <= nangsuatden)))

{

phuhop = false;

}

}

else

{

phuhop = false;

}

}

}

if (ChiTietHD.Attributes.Contains("new\_khachhangdoanhnghiep"))

{

if (csdtbs.Attributes.Contains("new\_nhomnangsuat"))

{

EntityReference nhomnangsuatCSDTBSRef = csdtbs.GetAttributeValue<EntityReference>("new\_nhomnangsuat");

Guid nhomnangsuatCSDTBSRefId = nhomnangsuatCSDTBSRef.Id;

Entity nhomnangsuatCSDTBS = service.Retrieve("new\_nhomnangsuat", nhomnangsuatCSDTBSRefId, new ColumnSet(new string[] { "new\_nangsuattu", "new\_nangsuatden" }));

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhangdoanhnghiep").Id;

Entity khObj = service.Retrieve("account", khId, new ColumnSet(new string[] { "name", "new\_nangsuatbinhquan" }));

if (khObj.Attributes.Contains("new\_nangsuatbinhquan") && nhomnangsuatCSDTBS.Attributes.Contains("new\_nangsuattu") && nhomnangsuatCSDTBS.Attributes.Contains("new\_nangsuatden"))

{

decimal nangsuatbq = khObj.GetAttributeValue<decimal>("new\_nangsuatbinhquan");

decimal nangsuattu = nhomnangsuatCSDTBS.GetAttributeValue<decimal>("new\_nangsuattu");

decimal nangsuatden = nhomnangsuatCSDTBS.GetAttributeValue<decimal>("new\_nangsuatden");

if (!((nangsuatbq >= nangsuattu) && (nangsuatbq <= nangsuatden)))

{

phuhop = false;

}

}

else

{

phuhop = false;

}

}

}

if (phuhop == false)

continue;

// Khuyen khich phat trien

phuhop = true;

EntityCollection dsKKPTHDCT = RetrieveNNRecord(service, "new\_khuyenkhichphattrien", "new\_thuadatcanhtac", "new\_new\_chitiethddtmia\_new\_khuyenkhichpt", new ColumnSet(new string[] { "new\_khuyenkhichphattrienid" }), "new\_thuadatcanhtacid", ChiTietHD.Id);

if (csdtbs.Attributes.Contains("new\_khuyenkhichphattrien"))

{

EntityReference kkptCSDTBSRef = csdtbs.GetAttributeValue<EntityReference>("new\_khuyenkhichphattrien");

if (dsKKPTHDCT.Entities.Count > 0)

{

foreach (Entity kkptHDCT in dsKKPTHDCT.Entities)

{

if (kkptHDCT.Id != kkptCSDTBSRef.Id)

{

phuhop = false;

break;

}

}

}

else

{

phuhop = false;

}

}

if (phuhop == false)

continue;

// Mo hinh khuyen nong

phuhop = true;

if (csdtbs.Attributes.Contains("new\_mohinhkhuyennong"))

{

if (ChiTietHD.Attributes.Contains("new\_thamgiamohinhkhuyennong"))

{

EntityReference mhknEntityRef = ChiTietHD.GetAttributeValue<EntityReference>("new\_thamgiamohinhkhuyennong");

EntityReference mhknCSDTBSRef = csdtbs.GetAttributeValue<EntityReference>("new\_mohinhkhuyennong");

if (mhknCSDTBSRef.Id != mhknEntityRef.Id)

phuhop = false;

}

else

{

phuhop = false;

}

}

if (phuhop == false)

continue;

// Nhom cu ly

phuhop = true;

if (csdtbs.Attributes.Contains("new\_nhomculy"))

{

if (thuadatObj.Attributes.Contains("new\_nhomculy"))

{

EntityReference nhomclEntityRef = thuadatObj.GetAttributeValue<EntityReference>("new\_nhomculy");

EntityReference nhomclCSDTBSRef = csdtbs.GetAttributeValue<EntityReference>("new\_nhomculy");

if (nhomclEntityRef.Id != nhomclCSDTBSRef.Id)

{

phuhop = false;

}

}

else

{

phuhop = false;

}

}

if (phuhop == false)

continue;

//Vung dia ly

phuhop = true;

if (csdtbs.Attributes.Contains("new\_vungdialy"))

{

if (thuadatObj.Attributes.Contains("new\_vungdialy"))

{

EntityReference vungdlEntityRef = thuadatObj.GetAttributeValue<EntityReference>("new\_vungdialy");

EntityReference vungdlCSDTBSRef = csdtbs.GetAttributeValue<EntityReference>("new\_vungdialy");

if (vungdlEntityRef.Id != vungdlCSDTBSRef.Id)

{

phuhop = false;

}

}

else

{

phuhop = false;

}

}

if (phuhop == false)

continue;

//break;

dinhmucbs += csdtbs.GetAttributeValue<Money>("new\_sotienbosung").Value;

}

if (csdtKQEntity.Attributes.Contains("new\_dinhmucdautukhonghoanlai")) // Dau tu khong hoan lai

{

decimal dientichhd = (ChiTietHD.Contains("new\_dientichhopdong") ? (decimal)ChiTietHD["new\_dientichhopdong"] : 0);

decimal dinhmucDTKHL = (csdtKQEntity.Contains("new\_dinhmucdautukhonghoanlai") ? csdtKQEntity.GetAttributeValue<Money>("new\_dinhmucdautukhonghoanlai").Value : 0);

dinhmucDTKHL += dinhmucbs;

Money MdinhmucDTKHL = new Money(dinhmucDTKHL);

decimal tongDMDTKHL = dinhmucDTKHL \* dientichhd;

Money MtongDMDTKHL = new Money(tongDMDTKHL);

//traceService.Trace("truoc cap nhat " + tongDMDTKHL);

if (ChiTietHD.Attributes.Contains("new\_dongiadautukhonghoanlai"))

{

ChiTietHD.Attributes["new\_dongiadautukhonghoanlai"] = MdinhmucDTKHL;

}

else

{

ChiTietHD.Attributes.Add("new\_dongiadautukhonghoanlai", MdinhmucDTKHL);

}

if (ChiTietHD.Attributes.Contains("new\_dinhmucdautukhonghoanlai"))

{

ChiTietHD.Attributes["new\_dinhmucdautukhonghoanlai"] = MtongDMDTKHL;

}

else

{

ChiTietHD.Attributes.Add("new\_dinhmucdautukhonghoanlai", MtongDMDTKHL);

}

}

// ----------------- DINH MUC KHONG HOAN LAI

// -------------------- DINH MUC PHAN BON

if (csdtKQEntity.Attributes.Contains("new\_dinhmucphanbontoithieu")) // dinh muc phan bon toi thieu

{

decimal dientichhd = (ChiTietHD.Contains("new\_dientichhopdong") ? (decimal)ChiTietHD["new\_dientichhopdong"] : 0);

decimal dinhmucPhanbon = (csdtKQEntity.Contains("new\_dinhmucphanbontoithieu") ? csdtKQEntity.GetAttributeValue<Money>("new\_dinhmucphanbontoithieu").Value : 0);

decimal tongDMPB = dinhmucPhanbon \* dientichhd;

Money MtongDMDTKHL = new Money(tongDMPB);

if (ChiTietHD.Attributes.Contains("new\_dinhmucphanbontoithieu"))

{

ChiTietHD.Attributes["new\_dinhmucphanbontoithieu"] = MtongDMDTKHL;

}

else

{

ChiTietHD.Attributes.Add("new\_dinhmucphanbontoithieu", MtongDMDTKHL);

}

}

// --------END--------- DINH MUC PHAN BON

// -------------------- DINH MUC DAU TU

decimal dmDTHL = (ChiTietHD.Contains("new\_dinhmucdautuhoanlai") ? ChiTietHD.GetAttributeValue<Money>("new\_dinhmucdautuhoanlai").Value : 0);

decimal dmDTKHL = (ChiTietHD.Contains("new\_dinhmucdautukhonghoanlai") ? ChiTietHD.GetAttributeValue<Money>("new\_dinhmucdautukhonghoanlai").Value : 0);

decimal dmPhanbon = (ChiTietHD.Contains("new\_dinhmucphanbontoithieu") ? ChiTietHD.GetAttributeValue<Money>("new\_dinhmucphanbontoithieu").Value : 0);

decimal tongDM = dmDTHL + dmDTKHL + dmPhanbon;

Money MtongDM = new Money(tongDM);

if (ChiTietHD.Attributes.Contains("new\_dinhmucdautu"))

{

ChiTietHD.Attributes["new\_dinhmucdautu"] = MtongDM;

}

else

{

ChiTietHD.Attributes.Add("new\_dinhmucdautu", MtongDM);

}

// --------END--------- DINH MUC DAU TU

// -------- End nhom du lieu Gan Dinh muc

service.Update(ChiTietHD);

EntityReferenceCollection listCSDT = new EntityReferenceCollection();

listCSDT.Add(mCSDT.ToEntityReference());

//service.Associate("new\_thuadatcanhtac", ChiTietHD.Id, new Relationship("new\_new\_chitiethddtmia\_new\_chinhsachdautu"), new EntityReferenceCollection() { mCSDT.ToEntityReference() });

//-------- Tìm CSDT thâm canh --------------------

EntityCollection csdtThamcanhCol = FindCSDTthamcanh(service, ChiTietHD);

Entity mCSDTthamcanh = null;

if (csdtThamcanhCol != null && csdtThamcanhCol.Entities.Count > 0)

{

foreach (Entity a in csdtThamcanhCol.Entities)

{

if (a.Contains("new\_vutrong\_vl")) // Vu trong

if (a["new\_vutrong\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_vutrong"]).Value.ToString()) == -1)

continue;

if (a.Contains("new\_loaigocmia\_vl")) // Loai goc mia

if (a["new\_loaigocmia\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_loaigocmia"]).Value.ToString()) == -1)

continue;

if (a.Contains("new\_mucdichsanxuatmia\_vl")) // Muc dich san xuat mia

if (a["new\_mucdichsanxuatmia\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_mucdichsanxuatmia"]).Value.ToString()) == -1)

continue;

if (a.Contains("new\_nhomdat\_vl")) // Nhom dat

{

if (thuadatObj.Attributes.Contains("new\_nhomdat"))

{

if (a["new\_nhomdat\_vl"].ToString().IndexOf(((OptionSetValue)thuadatObj["new\_nhomdat"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_loaisohuudat\_vl")) // Loai chu so huu

{

if (thuadatObj.Attributes.Contains("new\_loaisohuudat"))

{

if (a["new\_loaisohuudat\_vl"].ToString().IndexOf(((OptionSetValue)thuadatObj["new\_loaisohuudat"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_nhomgiongmia\_vl")) // Nhom giong mia

{

if (giongmiaObj.Attributes.Contains("new\_nhomgiong"))

{

if (a["new\_nhomgiongmia\_vl"].ToString().IndexOf(((OptionSetValue)giongmiaObj["new\_nhomgiong"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

// Nhom khach hang

bool co = false;

if (ChiTietHD.Attributes.Contains("new\_khachhang"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhang").Id;

Entity khObj = service.Retrieve("contact", khId, new ColumnSet(new string[] { "fullname", "new\_nhomkhachhang", "new\_nangsuatbinhquan" }));

EntityCollection dsNhomKH = RetrieveNNRecord(service, "new\_nhomkhachhang", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomkhachhang", new ColumnSet(new string[] { "new\_nhomkhachhangid" }), "new\_chinhsachdautuid", a.Id);

if (khObj.Attributes.Contains("new\_nhomkhachhang"))

{

Guid nhomkhId = khObj.GetAttributeValue<EntityReference>("new\_nhomkhachhang").Id;

Entity nhomKHHDCT = service.Retrieve("new\_nhomkhachhang", nhomkhId, new ColumnSet(new string[] { "new\_name" }));

if (dsNhomKH != null && dsNhomKH.Entities.Count > 0)

{

foreach (Entity nhomKH in dsNhomKH.Entities)

{

if (nhomKHHDCT.Id == nhomKH.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co NHomKH trong CTHD

{

if (dsNhomKH == null || dsNhomKH.Entities.Count() == 0)

co = true;

}

}

if (ChiTietHD.Attributes.Contains("new\_khachhangdoanhnghiep"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhangdoanhnghiep").Id;

Entity khObj = service.Retrieve("account", khId, new ColumnSet(new string[] { "name", "new\_nhomkhachhang" }));

EntityCollection dsNhomKH = RetrieveNNRecord(service, "new\_nhomkhachhang", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomkhachhang", new ColumnSet(new string[] { "new\_nhomkhachhangid" }), "new\_chinhsachdautuid", a.Id);

if (khObj.Attributes.Contains("new\_nhomkhachhang"))

{

Guid nhomkhId = khObj.GetAttributeValue<EntityReference>("new\_nhomkhachhang").Id;

Entity nhomKHHDCT = service.Retrieve("new\_nhomkhachhang", nhomkhId, new ColumnSet(new string[] { "new\_name" }));

if (dsNhomKH != null && dsNhomKH.Entities.Count > 0)

{

foreach (Entity nhomKH in dsNhomKH.Entities)

{

if (nhomKHHDCT.Id == nhomKH.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co NHomKH trong CTHD

{

if (dsNhomKH == null || dsNhomKH.Entities.Count() == 0)

co = true;

}

}

if (co == false)

continue;

//Vung dia ly

co = false;

EntityCollection dsVungDL = RetrieveNNRecord(service, "new\_vung", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_vung", new ColumnSet(new string[] { "new\_vungid" }), "new\_chinhsachdautuid", a.Id);

if (thuadatObj.Attributes.Contains("new\_vungdialy"))

{

Guid vungdlId = thuadatObj.GetAttributeValue<EntityReference>("new\_vungdialy").Id;

Entity vungDL = service.Retrieve("new\_vung", vungdlId, new ColumnSet(new string[] { "new\_name" }));

if (dsVungDL != null && dsVungDL.Entities.Count > 0)

{

foreach (Entity vungDL1 in dsVungDL.Entities)

{

if (vungDL.Id == vungDL1.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co VungDiaLy trong CTHD

{

if (dsVungDL == null || dsVungDL.Entities.Count() == 0)

co = true;

}

if (co == false)

continue;

// Giong mia

co = false;

EntityCollection dsGiongmia = RetrieveNNRecord(service, "new\_giongmia", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_giongmia", new ColumnSet(new string[] { "new\_giongmiaid" }), "new\_chinhsachdautuid", a.Id);

if (dsGiongmia != null && dsGiongmia.Entities.Count > 0)

{

foreach (Entity giongmia in dsGiongmia.Entities)

{

if (giongmiaObj.Id == giongmia.Id)

{

co = true;

break;

}

}

}

else

co = true;

if (co == false)

continue;

// Khuyen khich phat trien

co = false;

EntityCollection dsKKPTHDCT = RetrieveNNRecord(service, "new\_khuyenkhichphattrien", "new\_thuadatcanhtac", "new\_new\_chitiethddtmia\_new\_khuyenkhichpt", new ColumnSet(new string[] { "new\_khuyenkhichphattrienid" }), "new\_thuadatcanhtacid", ChiTietHD.Id);

EntityCollection dsKKPTCSDT = RetrieveNNRecord(service, "new\_khuyenkhichphattrien", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_khuyenkhichphatt", new ColumnSet(new string[] { "new\_khuyenkhichphattrienid" }), "new\_chinhsachdautuid", a.Id);

if (dsKKPTHDCT != null && dsKKPTHDCT.Entities.Count > 0)

{

if (dsKKPTCSDT != null && dsKKPTCSDT.Entities.Count > 0)

{

foreach (Entity kkpt1 in dsKKPTHDCT.Entities)

{

foreach (Entity kkpt2 in dsKKPTCSDT.Entities)

{

//neu tim thay kkpt1 nam trong danh sach dsKKPTCSDT thi thoat khoi for

if (kkpt1.Id == kkpt2.Id)

{

co = true;

break;

}

}

if (co)

break; //thoat vong for thu 1

}

}

else

co = true;

}

else //neu khong co KKPT trong CTHD

{

if (dsKKPTCSDT == null || dsKKPTCSDT.Entities.Count() == 0)

co = true;

}

if (co == false)

continue;

// Nhom cu ly

co = false;

EntityCollection dsNHomCL = RetrieveNNRecord(service, "new\_nhomculy", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomculy", new ColumnSet(new string[] { "new\_nhomculyid" }), "new\_chinhsachdautuid", a.Id);

if (thuadatObj.Attributes.Contains("new\_nhomculy"))

{

Guid nhomclId = thuadatObj.GetAttributeValue<EntityReference>("new\_nhomculy").Id;

Entity nhomCL = service.Retrieve("new\_nhomculy", nhomclId, new ColumnSet(new string[] { "new\_name" }));

if (dsNHomCL != null && dsNHomCL.Entities.Count > 0)

{

foreach (Entity nhomCL1 in dsNHomCL.Entities)

{

if (nhomCL.Id == nhomCL1.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co NHomCL trong CTHD

{

if (dsNHomCL == null || dsNHomCL.Entities.Count() == 0)

co = true;

}

if (co == false)

continue;

// Mo hinh khuyen nong

co = false;

EntityCollection dsMHKN = RetrieveNNRecord(service, "new\_mohinhkhuyennong", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_mohinhkhuyennong", new ColumnSet(new string[] { "new\_mohinhkhuyennongid" }), "new\_chinhsachdautuid", a.Id);

if (ChiTietHD.Attributes.Contains("new\_thamgiamohinhkhuyennong"))

{

Guid mhknId = ChiTietHD.GetAttributeValue<EntityReference>("new\_thamgiamohinhkhuyennong").Id;

Entity mhkn = service.Retrieve("new\_mohinhkhuyennong", mhknId, new ColumnSet(new string[] { "new\_name" }));

if (dsMHKN != null && dsMHKN.Entities.Count() > 0)

{

foreach (Entity mhkn1 in dsMHKN.Entities)

{

if (mhkn.Id == mhkn1.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co MNKH trong CTHD

{

if (dsMHKN == null || dsMHKN.Entities.Count() == 0)

co = true;

}

if (co == false)

continue;

// NHom nang suat

co = false;

if (ChiTietHD.Attributes.Contains("new\_khachhang"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhang").Id;

Entity khObj = service.Retrieve("contact", khId, new ColumnSet(new string[] { "fullname", "new\_nangsuatbinhquan" }));

EntityCollection dsNhomNS = RetrieveNNRecord(service, "new\_nhomnangsuat", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomnangsuat", new ColumnSet(new string[] { "new\_nhomnangsuatid", "new\_nangsuattu", "new\_nangsuatden" }), "new\_chinhsachdautuid", a.Id);

if (khObj.Attributes.Contains("new\_nangsuatbinhquan"))

{

decimal nangsuatbq = khObj.GetAttributeValue<decimal>("new\_nangsuatbinhquan");

if (dsNhomNS != null && dsNhomNS.Entities.Count() > 0)

{

foreach (Entity mhkn1 in dsNhomNS.Entities)

{

decimal nangsuattu = mhkn1.GetAttributeValue<decimal>("new\_nangsuattu");

decimal nangsuatden = mhkn1.GetAttributeValue<decimal>("new\_nangsuatden");

if ((nangsuatbq >= nangsuattu) && (nangsuatbq <= nangsuatden))

{

co = true;

break;

}

}

}

else

co = true;

}

else

{

if (dsNhomNS == null || dsNhomNS.Entities.Count() == 0)

co = true;

}

}

if (ChiTietHD.Attributes.Contains("new\_khachhangdoanhnghiep"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhangdoanhnghiep").Id;

Entity khObj = service.Retrieve("account", khId, new ColumnSet(new string[] { "name", "new\_nangsuatbinhquan" }));

EntityCollection dsNhomNS = RetrieveNNRecord(service, "new\_nhomnangsuat", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomnangsuat", new ColumnSet(new string[] { "new\_nhomnangsuatid", "new\_nangsuattu", "new\_nangsuatden" }), "new\_chinhsachdautuid", a.Id);

if (khObj.Attributes.Contains("new\_nangsuatbinhquan"))

{

decimal nangsuatbq = khObj.GetAttributeValue<decimal>("new\_nangsuatbinhquan");

if (dsNhomNS != null && dsNhomNS.Entities.Count() > 0)

{

foreach (Entity mhkn1 in dsNhomNS.Entities)

{

decimal nangsuattu = mhkn1.GetAttributeValue<decimal>("new\_nangsuattu");

decimal nangsuatden = mhkn1.GetAttributeValue<decimal>("new\_nangsuatden");

if ((nangsuatbq >= nangsuattu) && (nangsuatbq <= nangsuatden))

{

co = true;

break;

}

}

}

else

co = true;

}

else

{

if (dsNhomNS == null || dsNhomNS.Entities.Count() == 0)

co = true;

}

}

if (co == false)

continue;

mCSDTthamcanh = a;

break;

}

if (mCSDTthamcanh != null && mCSDTthamcanh.Id != Guid.Empty)

listCSDT.Add(mCSDTthamcanh.ToEntityReference());

//service.Associate("new\_thuadatcanhtac", ChiTietHD.Id, new Relationship("new\_new\_chitiethddtmia\_new\_chinhsachdautu"), new EntityReferenceCollection() { mCSDTthamcanh.ToEntityReference() });

}

//----END---- Tìm CSDT thâm canh --------------------

//-------- Tìm CSDT tưới mía --------------------

EntityCollection csdtTuoimiaCol = FindCSDTtuoi(service, ChiTietHD);

Entity mCSDTtuoimia = null;

if (csdtTuoimiaCol != null && csdtTuoimiaCol.Entities.Count > 0)

{

foreach (Entity a in csdtTuoimiaCol.Entities)

{

if (a.Contains("new\_mucdichtuoi\_vl")) // Muc dich tuoi

{

if (ChiTietHD.Attributes.Contains("new\_mucdichtuoi"))

{

if (a["new\_mucdichtuoi\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_mucdichtuoi"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_phuongphaptuoi\_vl")) // Phuong phap tuoi

{

if (ChiTietHD.Attributes.Contains("new\_phuongphaptuoi"))

{

if (a["new\_phuongphaptuoi\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_phuongphaptuoi"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_nhomdat\_vl")) // Nhom dat

{

if (thuadatObj.Attributes.Contains("new\_nhomdat"))

{

if (a["new\_nhomdat\_vl"].ToString().IndexOf(((OptionSetValue)thuadatObj["new\_nhomdat"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_loaisohuudat\_vl")) // Loai chu so huu

{

if (thuadatObj.Attributes.Contains("new\_loaisohuudat"))

{

if (a["new\_loaisohuudat\_vl"].ToString().IndexOf(((OptionSetValue)thuadatObj["new\_loaisohuudat"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

// traceService.Trace("vi trí Nhom KH");

// NHom khach hang

bool co = false;

if (ChiTietHD.Attributes.Contains("new\_khachhang"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhang").Id;

Entity khObj = service.Retrieve("contact", khId, new ColumnSet(new string[] { "fullname", "new\_nhomkhachhang", "new\_nangsuatbinhquan" }));

EntityCollection dsNhomKH = RetrieveNNRecord(service, "new\_nhomkhachhang", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomkhachhang", new ColumnSet(new string[] { "new\_nhomkhachhangid" }), "new\_chinhsachdautuid", a.Id);

if (khObj.Attributes.Contains("new\_nhomkhachhang"))

{

Guid nhomkhId = khObj.GetAttributeValue<EntityReference>("new\_nhomkhachhang").Id;

Entity nhomKHHDCT = service.Retrieve("new\_nhomkhachhang", nhomkhId, new ColumnSet(new string[] { "new\_name" }));

if (dsNhomKH != null && dsNhomKH.Entities.Count > 0)

{

foreach (Entity nhomKH in dsNhomKH.Entities)

{

if (nhomKHHDCT.Id == nhomKH.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co NHomKH trong CTHD

{

if (dsNhomKH == null || dsNhomKH.Entities.Count() == 0)

co = true;

}

}

if (ChiTietHD.Attributes.Contains("new\_khachhangdoanhnghiep"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhangdoanhnghiep").Id;

Entity khObj = service.Retrieve("account", khId, new ColumnSet(new string[] { "name", "new\_nhomkhachhang" }));

EntityCollection dsNhomKH = RetrieveNNRecord(service, "new\_nhomkhachhang", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomkhachhang", new ColumnSet(new string[] { "new\_nhomkhachhangid" }), "new\_chinhsachdautuid", a.Id);

if (khObj.Attributes.Contains("new\_nhomkhachhang"))

{

Guid nhomkhId = khObj.GetAttributeValue<EntityReference>("new\_nhomkhachhang").Id;

Entity nhomKHHDCT = service.Retrieve("new\_nhomkhachhang", nhomkhId, new ColumnSet(new string[] { "new\_name" }));

if (dsNhomKH != null && dsNhomKH.Entities.Count > 0)

{

foreach (Entity nhomKH in dsNhomKH.Entities)

{

if (nhomKHHDCT.Id == nhomKH.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co NHomKH trong CTHD

{

if (dsNhomKH == null || dsNhomKH.Entities.Count() == 0)

co = true;

}

}

if (co == false)

continue;

//traceService.Trace("vi trí truoc Vung dia ly");

//Vung dia ly

co = false;

EntityCollection dsVungDL = RetrieveNNRecord(service, "new\_vung", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_vung", new ColumnSet(new string[] { "new\_vungid" }), "new\_chinhsachdautuid", a.Id);

if (thuadatObj.Attributes.Contains("new\_vungdialy"))

{

Guid vungdlId = thuadatObj.GetAttributeValue<EntityReference>("new\_vungdialy").Id;

Entity vungDL = service.Retrieve("new\_vung", vungdlId, new ColumnSet(new string[] { "new\_name" }));

if (dsVungDL != null && dsVungDL.Entities.Count > 0)

{

foreach (Entity vungDL1 in dsVungDL.Entities)

{

if (vungDL.Id == vungDL1.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co VungDiaLy trong CTHD

{

if (dsVungDL == null || dsVungDL.Entities.Count() == 0)

co = true;

}

if (co == false)

continue;

//traceService.Trace("vi trí truoc Nhom cu ly");

// Nhom cu ly

co = false;

EntityCollection dsNHomCL = RetrieveNNRecord(service, "new\_nhomculy", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomculy", new ColumnSet(new string[] { "new\_nhomculyid" }), "new\_chinhsachdautuid", a.Id);

if (thuadatObj.Attributes.Contains("new\_nhomculy"))

{

Guid nhomclId = thuadatObj.GetAttributeValue<EntityReference>("new\_nhomculy").Id;

Entity nhomCL = service.Retrieve("new\_nhomculy", nhomclId, new ColumnSet(new string[] { "new\_name" }));

if (dsNHomCL != null && dsNHomCL.Entities.Count > 0)

{

foreach (Entity nhomCL1 in dsNHomCL.Entities)

{

if (nhomCL.Id == nhomCL1.Id)

{

co = true;

break;

}

}

}

}

else //neu khong co NHomCL trong CTHD

{

if (dsNHomCL == null || dsNHomCL.Entities.Count() == 0)

co = true;

}

if (co == false)

continue;

//traceService.Trace("vi trí truoc NHom nang suat");

// NHom nang suat

co = false;

if (ChiTietHD.Attributes.Contains("new\_khachhang"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhang").Id;

Entity khObj = service.Retrieve("contact", khId, new ColumnSet(new string[] { "fullname", "new\_nangsuatbinhquan" }));

EntityCollection dsNhomNS = RetrieveNNRecord(service, "new\_nhomnangsuat", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomnangsuat", new ColumnSet(new string[] { "new\_nhomnangsuatid", "new\_nangsuattu", "new\_nangsuatden" }), "new\_chinhsachdautuid", a.Id);

if (khObj.Attributes.Contains("new\_nangsuatbinhquan"))

{

decimal nangsuatbq = khObj.GetAttributeValue<decimal>("new\_nangsuatbinhquan");

if (dsNhomNS != null && dsNhomNS.Entities.Count() > 0)

{

foreach (Entity mhkn1 in dsNhomNS.Entities)

{

decimal nangsuattu = mhkn1.GetAttributeValue<decimal>("new\_nangsuattu");

decimal nangsuatden = mhkn1.GetAttributeValue<decimal>("new\_nangsuatden");

if ((nangsuatbq >= nangsuattu) && (nangsuatbq <= nangsuatden))

{

co = true;

break;

}

}

}

else

co = true;

}

else

{

if (dsNhomNS == null || dsNhomNS.Entities.Count() == 0)

co = true;

}

}

if (ChiTietHD.Attributes.Contains("new\_khachhangdoanhnghiep"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhangdoanhnghiep").Id;

Entity khObj = service.Retrieve("account", khId, new ColumnSet(new string[] { "name", "new\_nangsuatbinhquan" }));

EntityCollection dsNhomNS = RetrieveNNRecord(service, "new\_nhomnangsuat", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomnangsuat", new ColumnSet(new string[] { "new\_nhomnangsuatid", "new\_nangsuattu", "new\_nangsuatden" }), "new\_chinhsachdautuid", a.Id);

if (khObj.Attributes.Contains("new\_nangsuatbinhquan"))

{

decimal nangsuatbq = khObj.GetAttributeValue<decimal>("new\_nangsuatbinhquan");

if (dsNhomNS != null && dsNhomNS.Entities.Count() > 0)

{

foreach (Entity mhkn1 in dsNhomNS.Entities)

{

decimal nangsuattu = mhkn1.GetAttributeValue<decimal>("new\_nangsuattu");

decimal nangsuatden = mhkn1.GetAttributeValue<decimal>("new\_nangsuatden");

if ((nangsuatbq >= nangsuattu) && (nangsuatbq <= nangsuatden))

{

co = true;

break;

}

}

}

else

co = true;

}

else

{

if (dsNhomNS == null || dsNhomNS.Entities.Count() == 0)

co = true;

}

}

if (co == false)

continue;

mCSDTtuoimia = a;

break;

}

if (mCSDTtuoimia != null && mCSDTtuoimia.Id != Guid.Empty)

listCSDT.Add(mCSDTtuoimia.ToEntityReference());

//service.Associate("new\_thuadatcanhtac", ChiTietHD.Id, new Relationship("new\_new\_chitiethddtmia\_new\_chinhsachdautu"), new EntityReferenceCollection() { mCSDTtuoimia.ToEntityReference() });

}

//----END---- Tìm CSDT tưới mía --------------------

//-------- Tìm CSDT bóc lá mía --------------------

//traceService.Trace("vi trí bat dau Tìm CSDT bóc lá mía");

EntityCollection csdtBocLamiaCol = FindCSDTbocla(service, ChiTietHD);

Entity mCSDTbocla = null;

if (csdtBocLamiaCol != null && csdtBocLamiaCol.Entities.Count > 0)

{

foreach (Entity a in csdtBocLamiaCol.Entities)

{

if (a.Contains("new\_vutrong\_vl")) // Vu trong

if (a["new\_vutrong\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_vutrong"]).Value.ToString()) == -1)

continue;

if (a.Contains("new\_loaigocmia\_vl")) // Loai goc mia

if (a["new\_loaigocmia\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_loaigocmia"]).Value.ToString()) == -1)

continue;

if (a.Contains("new\_mucdichsanxuatmia\_vl")) // Muc dich san xuat mia

if (a["new\_mucdichsanxuatmia\_vl"].ToString().IndexOf(((OptionSetValue)ChiTietHD["new\_mucdichsanxuatmia"]).Value.ToString()) == -1)

continue;

if (a.Contains("new\_nhomdat\_vl")) // Nhom dat

{

if (thuadatObj.Attributes.Contains("new\_nhomdat"))

{

if (a["new\_nhomdat\_vl"].ToString().IndexOf(((OptionSetValue)thuadatObj["new\_nhomdat"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_loaisohuudat\_vl")) // Loai chu so huu

{

if (thuadatObj.Attributes.Contains("new\_loaisohuudat"))

{

if (a["new\_loaisohuudat\_vl"].ToString().IndexOf(((OptionSetValue)thuadatObj["new\_loaisohuudat"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

if (a.Contains("new\_nhomgiongmia\_vl")) // Nhom giong mia

{

if (giongmiaObj.Attributes.Contains("new\_nhomgiong"))

{

if (a["new\_nhomgiongmia\_vl"].ToString().IndexOf(((OptionSetValue)giongmiaObj["new\_nhomgiong"]).Value.ToString()) == -1)

continue;

}

else

continue;

}

// NHom khach hang

bool co = false;

if (ChiTietHD.Attributes.Contains("new\_khachhang"))

{

EntityCollection dsNhomKH = RetrieveNNRecord(service, "new\_nhomkhachhang", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomkhachhang", new ColumnSet(new string[] { "new\_nhomkhachhangid" }), "new\_chinhsachdautuid", a.Id);

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhang").Id;

Entity khObj = service.Retrieve("contact", khId, new ColumnSet(new string[] { "fullname", "new\_nhomkhachhang", "new\_nangsuatbinhquan" }));

if (khObj.Attributes.Contains("new\_nhomkhachhang"))

{

Guid nhomkhId = khObj.GetAttributeValue<EntityReference>("new\_nhomkhachhang").Id;

Entity nhomKHHDCT = service.Retrieve("new\_nhomkhachhang", nhomkhId, new ColumnSet(new string[] { "new\_name" }));

if (dsNhomKH != null && dsNhomKH.Entities.Count > 0)

{

foreach (Entity nhomKH in dsNhomKH.Entities)

{

if (nhomKHHDCT.Id == nhomKH.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co NHomKH trong CTHD

{

if (dsNhomKH == null || dsNhomKH.Entities.Count() == 0)

co = true;

}

}

if (ChiTietHD.Attributes.Contains("new\_khachhangdoanhnghiep"))

{

EntityCollection dsNhomKH = RetrieveNNRecord(service, "new\_nhomkhachhang", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomkhachhang", new ColumnSet(new string[] { "new\_nhomkhachhangid" }), "new\_chinhsachdautuid", a.Id);

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhangdoanhnghiep").Id;

Entity khObj = service.Retrieve("account", khId, new ColumnSet(new string[] { "name", "new\_nhomkhachhang" }));

if (khObj.Attributes.Contains("new\_nhomkhachhang"))

{

Guid nhomkhId = khObj.GetAttributeValue<EntityReference>("new\_nhomkhachhang").Id;

Entity nhomKHHDCT = service.Retrieve("new\_nhomkhachhang", nhomkhId, new ColumnSet(new string[] { "new\_name" }));

if (dsNhomKH != null && dsNhomKH.Entities.Count > 0)

{

foreach (Entity nhomKH in dsNhomKH.Entities)

{

if (nhomKHHDCT.Id == nhomKH.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co NHomKH trong CTHD

{

if (dsNhomKH == null || dsNhomKH.Entities.Count() == 0)

co = true;

}

}

if (co == false)

continue;

//Vung dia ly

co = false;

EntityCollection dsVungDL = RetrieveNNRecord(service, "new\_vung", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_vung", new ColumnSet(new string[] { "new\_vungid" }), "new\_chinhsachdautuid", a.Id);

if (thuadatObj.Attributes.Contains("new\_vungdialy"))

{

Guid vungdlId = thuadatObj.GetAttributeValue<EntityReference>("new\_vungdialy").Id;

Entity vungDL = service.Retrieve("new\_vung", vungdlId, new ColumnSet(new string[] { "new\_name" }));

if (dsVungDL != null && dsVungDL.Entities.Count > 0)

{

foreach (Entity vungDL1 in dsVungDL.Entities)

{

if (vungDL.Id == vungDL1.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co VungDiaLy trong CTHD

{

if (dsVungDL == null || dsVungDL.Entities.Count() == 0)

co = true;

}

if (co == false)

continue;

// Giong mia

co = false;

EntityCollection dsGiongmia = RetrieveNNRecord(service, "new\_giongmia", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_giongmia", new ColumnSet(new string[] { "new\_giongmiaid" }), "new\_chinhsachdautuid", a.Id);

if (dsGiongmia != null && dsGiongmia.Entities.Count > 0)

{

foreach (Entity giongmia in dsGiongmia.Entities)

{

if (giongmiaObj.Id == giongmia.Id)

{

co = true;

break;

}

}

}

else

co = true;

if (co == false)

continue;

// Khuyen khich phat trien

co = false;

EntityCollection dsKKPTHDCT = RetrieveNNRecord(service, "new\_khuyenkhichphattrien", "new\_thuadatcanhtac", "new\_new\_chitiethddtmia\_new\_khuyenkhichpt", new ColumnSet(new string[] { "new\_khuyenkhichphattrienid" }), "new\_thuadatcanhtacid", ChiTietHD.Id);

EntityCollection dsKKPTCSDT = RetrieveNNRecord(service, "new\_khuyenkhichphattrien", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_khuyenkhichphatt", new ColumnSet(new string[] { "new\_khuyenkhichphattrienid" }), "new\_chinhsachdautuid", a.Id);

if (dsKKPTHDCT != null && dsKKPTHDCT.Entities.Count > 0)

{

if (dsKKPTCSDT != null && dsKKPTCSDT.Entities.Count > 0)

{

foreach (Entity kkpt1 in dsKKPTHDCT.Entities)

{

foreach (Entity kkpt2 in dsKKPTCSDT.Entities)

{

//neu tim thay kkpt1 nam trong danh sach dsKKPTCSDT thi thoat khoi for

if (kkpt1.Id == kkpt2.Id)

{

co = true;

break;

}

}

if (co)

//thoat vong for thu 1

break;

}

}

else

co = true;

}

else //neu khong co KKPT trong CTHD

{

if (dsKKPTCSDT == null || dsKKPTCSDT.Entities.Count() == 0)

co = true;

}

if (co == false)

continue;

// Nhom cu ly

co = false;

EntityCollection dsNHomCL = RetrieveNNRecord(service, "new\_nhomculy", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomculy", new ColumnSet(new string[] { "new\_nhomculyid" }), "new\_chinhsachdautuid", a.Id);

if (thuadatObj.Attributes.Contains("new\_nhomculy"))

{

Guid nhomclId = thuadatObj.GetAttributeValue<EntityReference>("new\_nhomculy").Id;

Entity nhomCL = service.Retrieve("new\_nhomculy", nhomclId, new ColumnSet(new string[] { "new\_name" }));

if (dsNHomCL != null && dsNHomCL.Entities.Count > 0)

{

foreach (Entity nhomCL1 in dsNHomCL.Entities)

{

if (nhomCL.Id == nhomCL1.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co NHomCL trong CTHD

{

if (dsNHomCL == null || dsNHomCL.Entities.Count() == 0)

co = true;

}

if (co == false)

continue;

// Mo hinh khuyen nong

co = false;

EntityCollection dsMHKN = RetrieveNNRecord(service, "new\_mohinhkhuyennong", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_mohinhkhuyennong", new ColumnSet(new string[] { "new\_mohinhkhuyennongid" }), "new\_chinhsachdautuid", a.Id);

if (ChiTietHD.Attributes.Contains("new\_thamgiamohinhkhuyennong"))

{

Guid mhknId = ChiTietHD.GetAttributeValue<EntityReference>("new\_thamgiamohinhkhuyennong").Id;

Entity mhkn = service.Retrieve("new\_mohinhkhuyennong", mhknId, new ColumnSet(new string[] { "new\_name" }));

if (dsMHKN != null && dsMHKN.Entities.Count() > 0)

{

//List<Entity> ldsMHKN = dsMHKN.Entities.ToList<Entity>();

//foreach (Entity mhkn1 in ldsMHKN)

foreach (Entity mhkn1 in dsMHKN.Entities)

{

if (mhkn.Id == mhkn1.Id)

{

co = true;

break;

}

}

}

else

co = true;

}

else //neu khong co MNKH trong CTHD

{

if (dsMHKN == null || dsMHKN.Entities.Count() == 0)

co = true;

}

if (co == false)

continue;

// NHom nang suat

co = false;

if (ChiTietHD.Attributes.Contains("new\_khachhang"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhang").Id;

Entity khObj = service.Retrieve("contact", khId, new ColumnSet(new string[] { "fullname", "new\_nangsuatbinhquan" }));

EntityCollection dsNhomNS = RetrieveNNRecord(service, "new\_nhomnangsuat", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomnangsuat", new ColumnSet(new string[] { "new\_nhomnangsuatid", "new\_nangsuattu", "new\_nangsuatden" }), "new\_chinhsachdautuid", a.Id);

if (khObj.Attributes.Contains("new\_nangsuatbinhquan"))

{

decimal nangsuatbq = khObj.GetAttributeValue<decimal>("new\_nangsuatbinhquan");

if (dsNhomNS != null && dsNhomNS.Entities.Count() > 0)

{

foreach (Entity mhkn1 in dsNhomNS.Entities)

{

decimal nangsuattu = mhkn1.GetAttributeValue<decimal>("new\_nangsuattu");

decimal nangsuatden = mhkn1.GetAttributeValue<decimal>("new\_nangsuatden");

if ((nangsuatbq >= nangsuattu) && (nangsuatbq <= nangsuatden))

{

co = true;

break;

}

}

}

else

co = true;

}

else

{

if (dsNhomNS == null || dsNhomNS.Entities.Count() == 0)

co = true;

}

}

if (ChiTietHD.Attributes.Contains("new\_khachhangdoanhnghiep"))

{

Guid khId = ChiTietHD.GetAttributeValue<EntityReference>("new\_khachhangdoanhnghiep").Id;

Entity khObj = service.Retrieve("account", khId, new ColumnSet(new string[] { "name", "new\_nangsuatbinhquan" }));

EntityCollection dsNhomNS = RetrieveNNRecord(service, "new\_nhomnangsuat", "new\_chinhsachdautu", "new\_new\_chinhsachdautu\_new\_nhomnangsuat", new ColumnSet(new string[] { "new\_nhomnangsuatid", "new\_nangsuattu", "new\_nangsuatden" }), "new\_chinhsachdautuid", a.Id);

if (khObj.Attributes.Contains("new\_nangsuatbinhquan"))

{

decimal nangsuatbq = khObj.GetAttributeValue<decimal>("new\_nangsuatbinhquan");

if (dsNhomNS != null && dsNhomNS.Entities.Count() > 0)

{

foreach (Entity mhkn1 in dsNhomNS.Entities)

{

decimal nangsuattu = mhkn1.GetAttributeValue<decimal>("new\_nangsuattu");

decimal nangsuatden = mhkn1.GetAttributeValue<decimal>("new\_nangsuatden");

if ((nangsuatbq >= nangsuattu) && (nangsuatbq <= nangsuatden))

{

co = true;

break;

}

}

}

else

co = true;

}

else

{

if (dsNhomNS == null || dsNhomNS.Entities.Count() == 0)

co = true;

}

}

if (co == false)

continue;

mCSDTbocla = a;

break;

}

if (mCSDTbocla != null && mCSDTbocla.Id != Guid.Empty)

listCSDT.Add(mCSDTbocla.ToEntityReference());

//service.Associate("new\_thuadatcanhtac", ChiTietHD.Id, new Relationship("new\_new\_chitiethddtmia\_new\_chinhsachdautu"), new EntityReferenceCollection() { mCSDTbocla.ToEntityReference() });

}

//----END---- Tìm CSDT bóc lá mía --------------------

//----------- Tìm CSDT ứng --------------------

EntityCollection csdtUngCol = FindCSDTung(service, ChiTietHD);

if (csdtUngCol != null && csdtUngCol.Entities.Count > 0)

{

Entity mCSDTung = csdtUngCol[0];

listCSDT.Add(mCSDTung.ToEntityReference());

//service.Associate("new\_thuadatcanhtac", ChiTietHD.Id, new Relationship("new\_new\_chitiethddtmia\_new\_chinhsachdautu"), new EntityReferenceCollection() { mCSDTung.ToEntityReference() });

}

//traceService.Trace("vi trí add ứng");

//----END---- Tìm CSDT ứng --------------------

service.Associate("new\_thuadatcanhtac", ChiTietHD.Id, new Relationship("new\_new\_chitiethddtmia\_new\_chinhsachdautu"), listCSDT);

//traceService.Trace("vi trí sau add list");

} //if (mCSDT != null && mCSDT.Id != Guid.Empty)

else

{

throw new InvalidPluginExecutionException("Không tìm thấy Chính sách Đầu tư trồng chăm sóc mía phù hợp");

}

} // if (vudautuRef == null || vudautuRef.Id == Guid.Empty)

}//using

}

public static EntityCollection RetrieveNNRecord(IOrganizationService crmservices, string entity1, string entity2, string relateName, ColumnSet column, string condition, object value)

{

EntityReferenceCollection result = new EntityReferenceCollection();

QueryExpression query = new QueryExpression(entity1);

query.ColumnSet = column;

LinkEntity linkEntity1 = new LinkEntity(entity1, relateName, entity1 + "id", entity1 + "id", JoinOperator.Inner);

LinkEntity linkEntity2 = new LinkEntity(relateName, entity2, entity2 + "id", entity2 + "id", JoinOperator.Inner);

linkEntity1.LinkEntities.Add(linkEntity2);

query.LinkEntities.Add(linkEntity1);

linkEntity2.LinkCriteria = new FilterExpression();

linkEntity2.LinkCriteria.AddCondition(new ConditionExpression(condition, ConditionOperator.Equal, value));

EntityCollection collRecords = crmservices.RetrieveMultiple(query);

return collRecords;

}

public static string GetWindowsIntegratedSecurityConnectionString()

{

int count = ConfigurationManager.ConnectionStrings.Count;

if (count == 0)

throw new Exception("Could not find ConnectionString");

return ConfigurationManager.ConnectionStrings[0].ConnectionString;

}

public static EntityCollection FindCSDTtrongmia(IOrganizationService crmservices, Entity ctHDDT)

{

Entity HD = crmservices.Retrieve("new\_hopdongdautumia", ((EntityReference)ctHDDT["new\_hopdongdautumia"]).Id, new ColumnSet(new string[] { "new\_vudautu" }));

Entity VDT = crmservices.Retrieve("new\_vudautu", ((EntityReference)HD["new\_vudautu"]).Id, new ColumnSet(new string[] { "new\_name" }));

QueryExpression q = new QueryExpression("new\_chinhsachdautu");

q.ColumnSet = new ColumnSet(true);

q.Criteria = new FilterExpression();

q.Criteria.AddCondition(new ConditionExpression("new\_ngayapdung", ConditionOperator.LessEqual, ctHDDT["createdon"]));

q.Criteria.AddCondition(new ConditionExpression("new\_vudautu", ConditionOperator.Equal, VDT.Id));

q.Criteria.AddCondition(new ConditionExpression("new\_loaihopdong", ConditionOperator.Equal, 100000000));

q.Criteria.AddCondition(new ConditionExpression("new\_mucdichdautu", ConditionOperator.Equal, 100000000));

q.Orders.Add(new OrderExpression("new\_ngayapdung", OrderType.Descending));

EntityCollection entc = crmservices.RetrieveMultiple(q);

return entc;

}

public static EntityCollection FindCSDTthamcanh(IOrganizationService crmservices, Entity ctHDDT)

{

Entity HD = crmservices.Retrieve("new\_hopdongdautumia", ((EntityReference)ctHDDT["new\_hopdongdautumia"]).Id, new ColumnSet(new string[] { "new\_vudautu" }));

Entity VDT = crmservices.Retrieve("new\_vudautu", ((EntityReference)HD["new\_vudautu"]).Id, new ColumnSet(new string[] { "new\_name" }));

QueryExpression q = new QueryExpression("new\_chinhsachdautu");

q.ColumnSet = new ColumnSet(true);

q.Criteria = new FilterExpression();

q.Criteria.AddCondition(new ConditionExpression("new\_ngayapdung", ConditionOperator.LessEqual, ctHDDT["createdon"]));

q.Criteria.AddCondition(new ConditionExpression("new\_vudautu", ConditionOperator.Equal, VDT.Id));

q.Criteria.AddCondition(new ConditionExpression("new\_loaihopdong", ConditionOperator.Equal, 100000000));

q.Criteria.AddCondition(new ConditionExpression("new\_mucdichdautu", ConditionOperator.Equal, 100000001));

q.Orders.Add(new OrderExpression("new\_ngayapdung", OrderType.Descending));

EntityCollection entc = crmservices.RetrieveMultiple(q);

return entc;

}

public static EntityCollection FindCSDTtuoi(IOrganizationService crmservices, Entity ctHDDT)

{

Entity HD = crmservices.Retrieve("new\_hopdongdautumia", ((EntityReference)ctHDDT["new\_hopdongdautumia"]).Id, new ColumnSet(new string[] { "new\_vudautu" }));

Entity VDT = crmservices.Retrieve("new\_vudautu", ((EntityReference)HD["new\_vudautu"]).Id, new ColumnSet(new string[] { "new\_name" }));

QueryExpression q = new QueryExpression("new\_chinhsachdautu");

q.ColumnSet = new ColumnSet(true);

q.Criteria = new FilterExpression();

q.Criteria.AddCondition(new ConditionExpression("new\_ngayapdung", ConditionOperator.LessEqual, ctHDDT["createdon"]));

q.Criteria.AddCondition(new ConditionExpression("new\_vudautu", ConditionOperator.Equal, VDT.Id));

q.Criteria.AddCondition(new ConditionExpression("new\_loaihopdong", ConditionOperator.Equal, 100000000));

q.Criteria.AddCondition(new ConditionExpression("new\_mucdichdautu", ConditionOperator.Equal, 100000002));

q.Orders.Add(new OrderExpression("new\_ngayapdung", OrderType.Descending));

EntityCollection entc = crmservices.RetrieveMultiple(q);

return entc;

}

public static EntityCollection FindCSDTbocla(IOrganizationService crmservices, Entity ctHDDT)

{

Entity HD = crmservices.Retrieve("new\_hopdongdautumia", ((EntityReference)ctHDDT["new\_hopdongdautumia"]).Id, new ColumnSet(new string[] { "new\_vudautu" }));

Entity VDT = crmservices.Retrieve("new\_vudautu", ((EntityReference)HD["new\_vudautu"]).Id, new ColumnSet(new string[] { "new\_name" }));

QueryExpression q = new QueryExpression("new\_chinhsachdautu");

q.ColumnSet = new ColumnSet(true);

q.Criteria = new FilterExpression();

q.Criteria.AddCondition(new ConditionExpression("new\_ngayapdung", ConditionOperator.LessEqual, ctHDDT["createdon"]));

q.Criteria.AddCondition(new ConditionExpression("new\_vudautu", ConditionOperator.Equal, VDT.Id));

q.Criteria.AddCondition(new ConditionExpression("new\_loaihopdong", ConditionOperator.Equal, 100000000));

q.Criteria.AddCondition(new ConditionExpression("new\_mucdichdautu", ConditionOperator.Equal, 100000003));

q.Orders.Add(new OrderExpression("new\_ngayapdung", OrderType.Descending));

EntityCollection entc = crmservices.RetrieveMultiple(q);

return entc;

}

public static EntityCollection FindCSDTung(IOrganizationService crmservices, Entity ctHDDT)

{

Entity HD = crmservices.Retrieve("new\_hopdongdautumia", ((EntityReference)ctHDDT["new\_hopdongdautumia"]).Id, new ColumnSet(new string[] { "new\_vudautu" }));

Entity VDT = crmservices.Retrieve("new\_vudautu", ((EntityReference)HD["new\_vudautu"]).Id, new ColumnSet(new string[] { "new\_name" }));

QueryExpression q = new QueryExpression("new\_chinhsachdautu");

q.ColumnSet = new ColumnSet(true);

q.Criteria = new FilterExpression();

q.Criteria.AddCondition(new ConditionExpression("new\_ngayapdung", ConditionOperator.LessEqual, ctHDDT["createdon"]));

q.Criteria.AddCondition(new ConditionExpression("new\_vudautu", ConditionOperator.Equal, VDT.Id));

q.Criteria.AddCondition(new ConditionExpression("new\_loaihopdong", ConditionOperator.Equal, 100000000));

q.Criteria.AddCondition(new ConditionExpression("new\_mucdichdautu", ConditionOperator.Equal, 100000004));

q.Orders.Add(new OrderExpression("new\_ngayapdung", OrderType.Descending));

EntityCollection entc = crmservices.RetrieveMultiple(q);

return entc;

}

}

}

//StringBuilder xml = new StringBuilder();

// xml.AppendLine("<fetch version='1.0' output-format='xml-platform' mapping='logical' distinct='false'>");

// xml.AppendLine()

//stringA.AppendLine(stringB) nghia la stringA = stringA + stringB

// muốn check field có value không thì dùng service.Trace(entityA.Attributes.Contains("fieldxyz"));

// sau đó dùng hàm Contains() để check coi nó có value ko

// hoặc dùng if (bien == null) Trace("A") else Trace("B");

//Logger.Write("Phonecall PostCreate", "Begin");

//throw new InvalidPluginExecutionException("End");

//Logger.Write("entity Id", entity.Id.ToString());

//Convert.ChangeType(mCSTM["new\_dongiatang1ccs"]), decimal);

//giá trị mới = Convert.ChangeType(val, pd.PropertyType);

//service.Trace(entityA.Attributes.Contains("fieldxyz"));

//service.Trace("vi tri 1");

//Muốn check xem entity này có những field gì và value gì có thể chạy vòng lặp này:

//foreach (KeyValuePair<String, Object> attribute in entity.Attributes)

// {

// Console.WriteLine(attribute.Key + ": " + attribute.Value);

// }