云归档动工

**数据采集**

1.

注册患者信息

四种入参：患者信息，就诊信息，检查信息，检查结果信息（对应四张表）

因为Visit（病人就诊记录）表中有PatientIndex中的PatientMasterID（病人主索引ID），而ObservationRequest表中有Visit表中的ObservationUID（观察唯一序号），而ObservationResult（观察结果表）中又有ObservationRequest表中的ObservationUID（关联观察请求序列号），所以这四张表的存在关系，就是1234如下排列。

（1）PatientIndex：病人主索引信息

（2）Visit：病人就诊记录

（3）ObservationRequest：观察请求记录

（4）ObservationResult：观察结果表

第五种为最后插入数据的表。

（5）LogClinicDataOperation临床数据操作日志

namespace eWorld.Core.DTO

{

/// <summary>

/// 注册检查信息请求参数

/// </summary>

public class DataArchivingQuery

{

/// <summary>

/// 患者信息

/// </summary>

public PatientRegisterQuery Patient { get; set; }

/// <summary>

/// 就诊信息

/// </summary>

public PatientVisitQuery Visit { get; set; }

/// <summary>

/// 检查信息

/// </summary>

public ObservationRequestAddQuery ObservationRequest { get; set; }

/// <summary>

/// 检查结果信息

/// </summary>

public List<ObservationResultInfo> ObservationResultList { get; set; }

}

}

最终注册的时候，只调用了 PatientIndex：病人主索引信息 和 Visit：病人就诊记录

/// <summary>

/// 患者注册

/// </summary>

/// <param name="query"></param>

/// <returns></returns>

private ModelResult<string> PatientRegister(PatientRegisterQuery query, PatientVisitQuery visitquery)

{

这一串的注册，感觉应该是同生共死，用事务。

一连串，还是对四个表的插入工作。但是第一个，PatientIndex：病人主索引信息表，涉及了insert或者update的操作。

而且，这里涉及后一个方法的参数用到前一个刚生成的参数。

var patientregister = PatientRegister(query.Patient, query.Visit);

if (patientregister.code == ResultCodeEnum.Success)//患者信息注册成功方可写入检查信息

{

\_log.Info("患者信息注册成功");

string patientmasterid = patientregister.Result;

query.ObservationRequest.PatientMasterID = patientmasterid;

var uploadobservationrequest = UploadObservationRequest(query.ObservationRequest);

if (uploadobservationrequest.code == ResultCodeEnum.Success)

{

\_log.Info("患者检查信息注册成功");

query.Visit.PatientMasterID = patientmasterid;

query.Visit.VisitUID = uploadobservationrequest.Result.VisitUID.Value;

var uploadpatientvisit = UploadPatientVisit(query.Visit);

if (uploadpatientvisit.code == ResultCodeEnum.Success)

{

\_log.Info("患者就诊信息注册成功" );

}

else

{

result.msg = "检查信息上传失败，患者就诊信息注册失败";

\_log.Info("检查信息上传失败,患者就诊信息注册失败，：" + uploadpatientvisit.msg);

}

observationuid = uploadobservationrequest.Result.ObservationUID.Value;

foreach (var observationresult in query.ObservationResultList)

{

observationresult.ObservationUID = observationuid;

}

var uploadobservationresult = UploadObservationResult(query.ObservationResultList);

if (uploadobservationresult.code == ResultCodeEnum.Success)

{

\_log.Info("患者纠缠结果信息注册成功");

try

{

var log = new LogClinicDataOperation();

log.BusinessType = "Exam";

log.BusinessUID = observationuid;

log.ClassCode = "Exam";

log.ClientApplication = "";

log.ClientHostName = "";

log.ClientKind = 1;

log.CreateDate = DateTime.Now;

log.OperationDesc = "采集检查信息入库";

log.OperationType = 0;//新增

log.TypeCode = "Exam";

log.UserKind = 2;

\_logClinicDataOperationRepository.Insert(log);

}

catch (Exception e)

{

\_log.Error("采集检查信息入库，保存采集日志日志出现异常", e);

}

result.code = ResultCodeEnum.Success;

result.msg = "OK";

result.Result = observationuid;

}

else

{

//检查结果信息入库失败，删除检查信息、就诊信息

\_log.Info("采集检查信息入库,检查结果信息保存失败，：" + uploadobservationresult.msg);

result.msg = "检查信息上传失败，检查结果信息保存失败";

}

}

else

{

\_log.Info("采集检查信息入库,检查信息保存失败，：" + uploadobservationrequest.msg);

result.msg = "检查信息上传失败，检查信息保存失败";

}

}

else

{

result.msg = "检查信息上传失败，患者信息注册失败";

\_log.Info("检查信息上传失败,患者信息注册失败，：" + patientregister.msg);

}

最后还有第五个方法，采集检查信息入库。

涉及LogClinicDataOperation临床数据操作日志 表

\_log.Info("患者检查结果信息注册成功");

try

{

var log = new LogClinicDataOperation();

log.BusinessType = "Exam";

log.BusinessUID = observationuid;

log.ClassCode = "Exam";

log.ClientApplication = "";

log.ClientHostName = "";

log.ClientKind = 1;

log.CreateDate = DateTime.Now;

log.OperationDesc = "采集检查信息入库";

log.OperationType = 0;//新增

log.TypeCode = "Exam";

log.UserKind = 2;

\_logClinicDataOperationRepository.Insert(log);

}

数据采集接口：

var returnModel = \_imageArchiveClient.Invoke(i => i.SaveExamDataInfo(query));

第三方用的：

var saveRes = \_imageArchiveClient.Invoke(t => t.SavePatientInfo(param));

用数据采集的，现在是把就诊信息也放在了里面，我要把它隔离出来。

现在是五张表，

拆分之后：

（1）操作主索引表

（2）操作就诊信息，检查信息，检查结果信息，临床数据操作日志暂时没提。

对应的，曹兵那边也会拆成两张表。

改造后，需要第一步完成，才能去操作第二步。

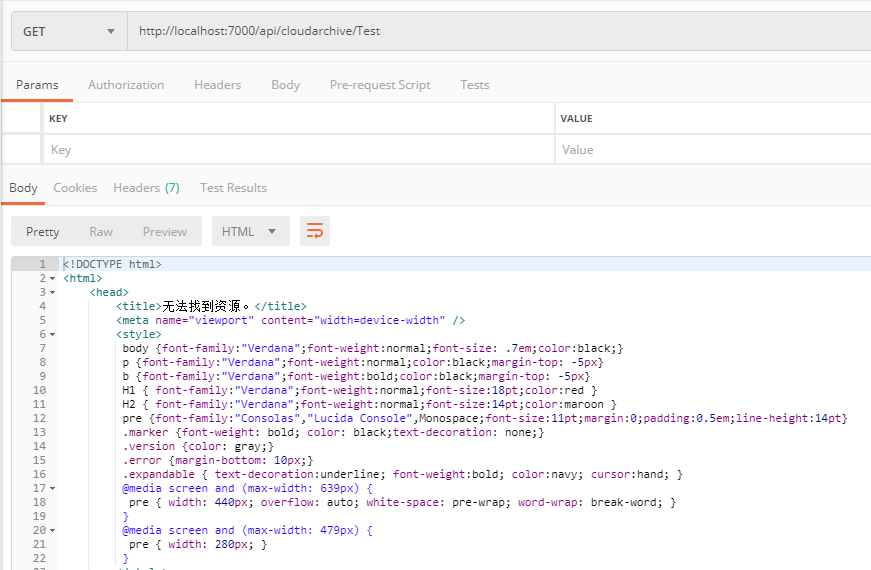
这两个接口是给采集服务用的，我要做的，患者信息注册和数据采集的这个接口，是有两个接口，一个是检查数据的，一个是患者信息的。只要走这两个接口，就可以把检查信息给传上来了。

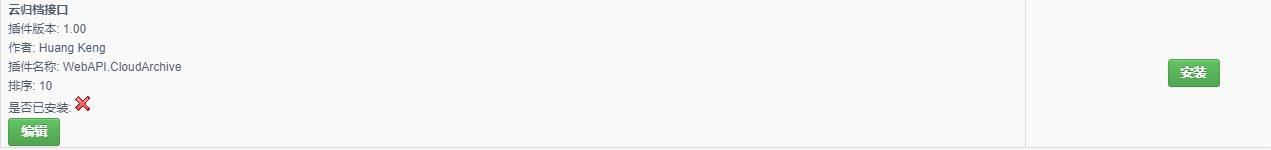
以前的采集服务的接口，也得重新整一遍，包括心电的，很老的，没优化过的，给喻永红用的，都要重新整。

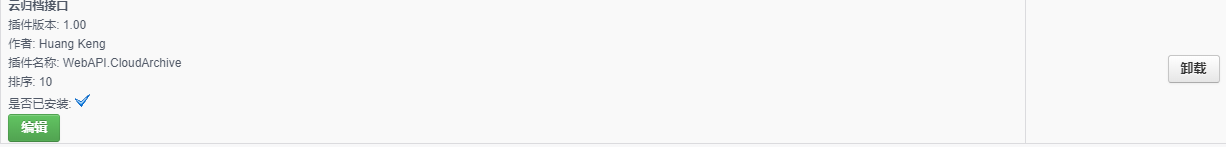
我需要先搞清楚流程。

2.

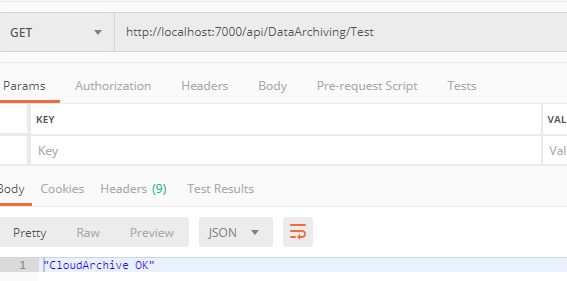
未安装插件之前







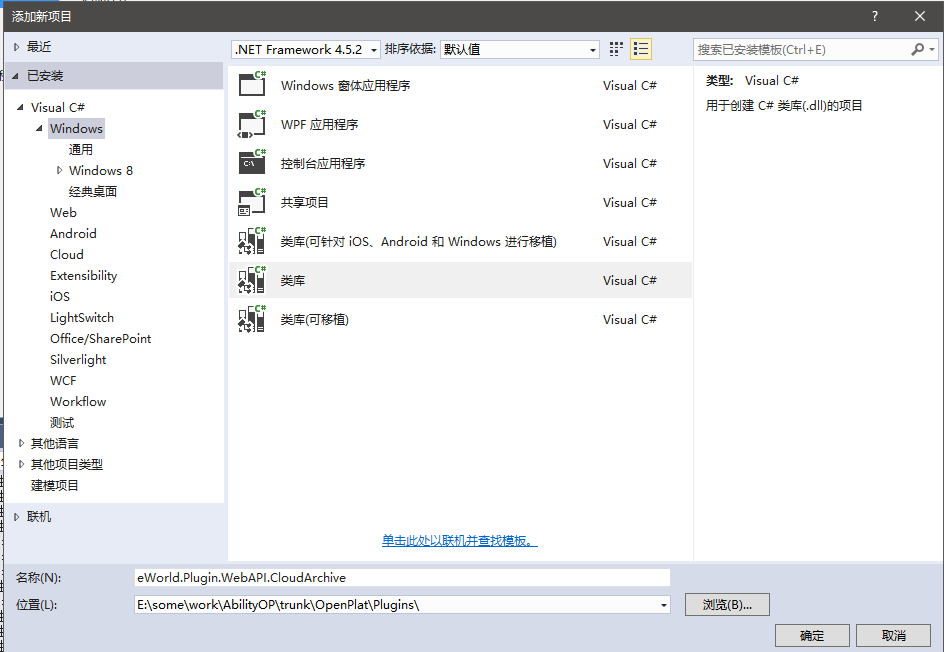
安装之后ok了。



3.

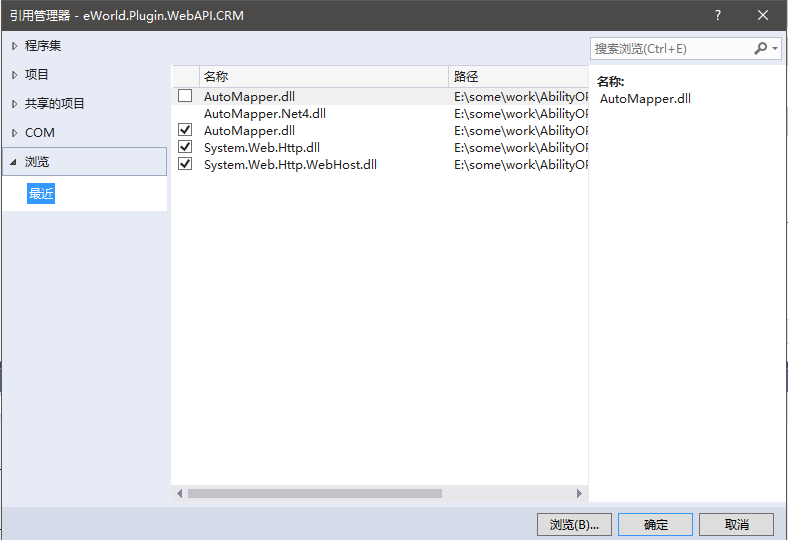
再走一次

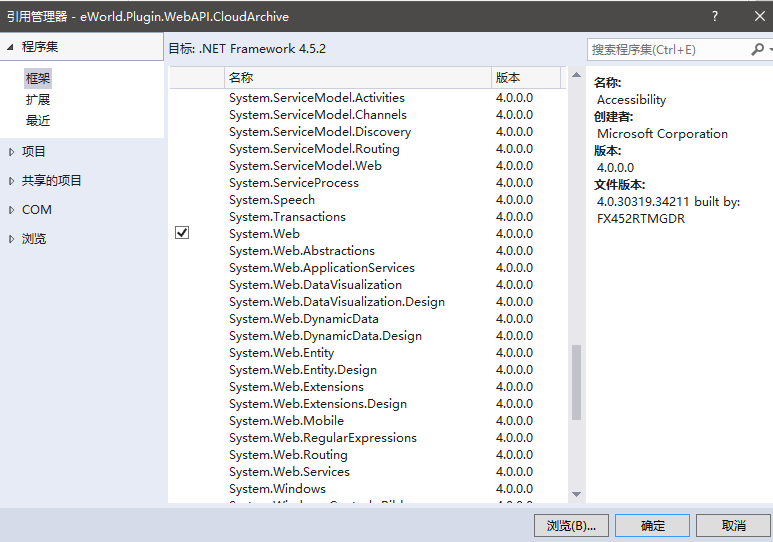
（1）

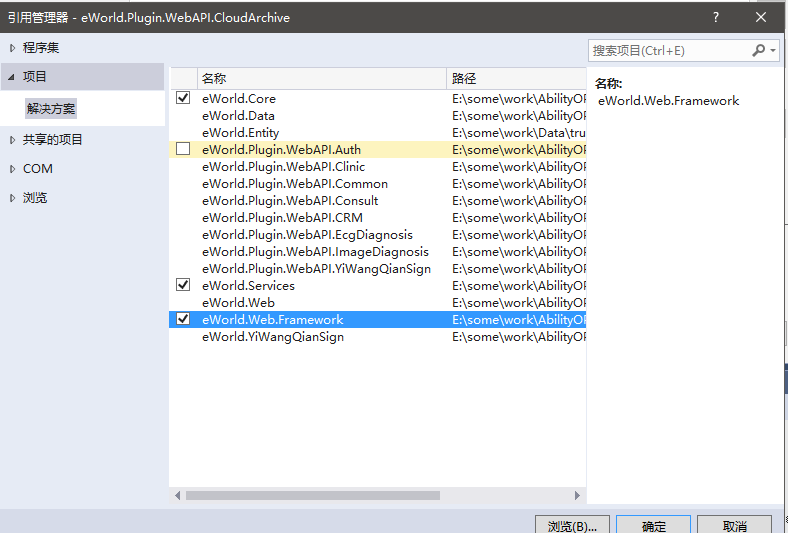


（2）

添加引用

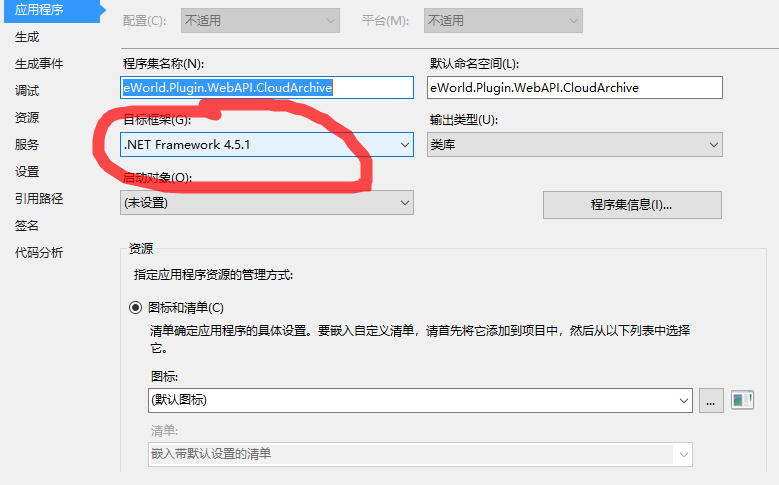




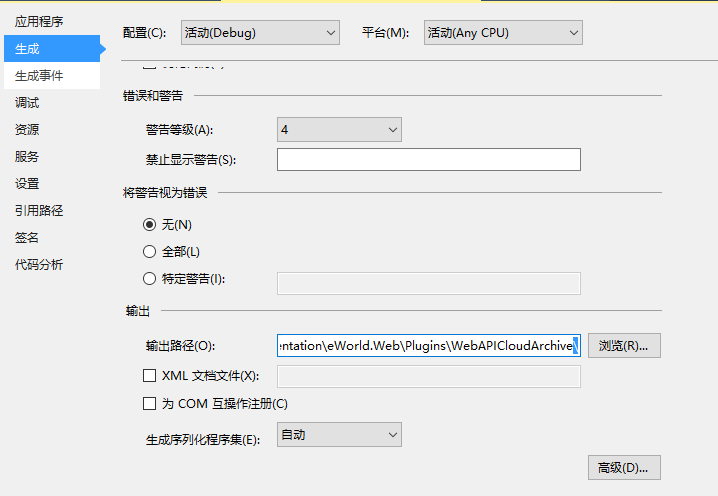


（3）

4.5.1



生成：



（4）

4.

上传文件：

var saveExamRes = \_imageArchiveClient.Invoke(t => t.UploadDocument(info));

第三方接口和Foreign控制器

有一个字节流的参数

/// <summary>

/// 文件的字节流。不加入Token验证。

/// </summary>

public byte[] FileSize { get; set; }

5.

获取患者检查dicomstudy信息

/// <summary>

/// 获取患者检查dicomstudy信息

/// </summary>

/// <param name="query"></param>

/// <returns></returns>

[Route("v2/dataarchiving/get\_exam\_dicomstudy")]

[HttpPost]

public ModelReturnResult<PatientExamDicomStudyDTO> GetExamDicomStudy([FromBody]PatientExamDicomStudyQuery query)

{

WCF：

var returnModel = \_imageArchiveClient.Invoke(i => i.GetExamDicomStudy(query.ToQuery()));

核心代码：

先是在Document（文档记录）中查询该BusinessID对应的结果，如果存在，再去DicomStudy（影像的检查信息）表中根据FileUID关联查询到所有的病人信息。

var documentInfo = \_repository.Table.Where(d => d.BusinessID == query.BusinessID && d.TypeCode == "ExamImage" && d.DeleteFlag == false).FirstOrDefault();

if (documentInfo != null)

{

var dicomStudy = \_dicomStudyRepository.Table.Where(d => d.FileUID == documentInfo.FileUID).FirstOrDefault();

if (dicomStudy != null)

{

model.AccessionNumber = dicomStudy.AccessionNumber;

model.ModalityInStudy = dicomStudy.ModalityInStudy;

model.PatientID = dicomStudy.PatientID;

model.PatientName = dicomStudy.PatientName;

model.StudyDateTime = dicomStudy.StudyDateTime;

model.StudyID = dicomStudy.StudyID;

model.StudyInstanceUID = dicomStudy.StudyInstanceUID;

}

}

Guid businessid = new Guid();

if (Guid.TryParse(query.BusinessID, out businessid))

{

此外，在上面已经走了两个表之后，还要去ObservationRequest（观察请求记录）中查询该ObservationUID（也是和businessid关联）获取该观察结果，然后根据其中的PatientID，PatientMasterID，PIDAssigningAuthority，三个条件又一次关联Document（文档记录）表，去获取病人信息，进行组装。

var exam = \_observationRequestRepository.Table.Where(i => i.ObservationUID == businessid && i.DeleteFlag == false).FirstOrDefault();

这里，一旦ObservationRequest（观察请求记录）中没有数据，则直接跳到下面的“获取检查信息失败”的结果。

if (exam != null)

{

model.OrganizationID = exam.OrganizationID;

model.OrganizationName = exam.OrganizationName;

var patientInfo = \_repository.GetTable<PatientIndex>().Where(p => p.PatientID == exam.PatientID && p.PatientMasterID == exam.PatientMasterID && p.PIDAssigningAuthority == exam.PIDAssigningAuthority).FirstOrDefault();

if (patientInfo != null)

{

model.Name = patientInfo.Name;

}

modelResult.code = ResultCodeEnum.Success;

modelResult.msg = "OK";

modelResult.Result = model;

}

else

{

modelResult.msg = "根据业务唯一号获取检查信息失败";

}

}

入参：

{

"BusinessID":"00007b20-70b7-40f0-9913-13880fffafcd"

}

返回：

{

"code": 0,

"msg": "成功",

"data": {

"PatientName": null,

"Name": "赵治学",

"PatientID": null,

"StudyDateTime": null,

"AccessionNumber": null,

"ModalityInStudy": null,

"StudyID": null,

"StudyInstanceUID": null,

"OrganizationID": "123308244720006231",

"OrganizationName": "音坑乡卫生院"

}

}

6.

更新检查影像状态

var returnModel = \_imageArchiveClient.Invoke(i => i.ModifyExamImageState(query.ToQuery()));

针对 观察请求记录：ObservationRequest 表的操作。

var obs = \_observationRequestRepository.Table.Where(t => t.ObservationUID == query.ObservationUID).FirstOrDefault();

if (obs == null)

{

throw new Exception("查找不到ObservationRequest记录，ObservationUID=" + query.ObservationUID.ToString());

}

double diskSpace = 0;

var observationUID = query.ObservationUID.ToString();

var documentList = \_documentRepository.Table.Where(t => t.BusinessID == observationUID && t.DeleteFlag == false).ToList();

if (documentList != null && documentList.Count > 0)

{

foreach (var document in documentList)

{

if (document.FileSize != null)

{

diskSpace += document.FileSize.Value;

}

}

}

if (diskSpace > 0)

{

这里计算消耗磁盘空间：DiskSpace（消耗磁盘空间（Mb））

obs.DiskSpace = IntHelpert.Round(diskSpace, 1048576.00);

}

obs.IsSummary = false;

obs.HasImage = query.HasImage;

obs.ImageLocation = (byte)query.ImageLoaction;

obs.LastUpdateDate = DateTime.Now;

\_observationRequestRepository.Update(obs);

Document（文档记录）表的字段 BusinessID（业务唯一号） 和 ObservationRequest（观察请求记录）的ObservationUID（观察唯一序号）进行关联，相等去查询。

从Document表中获取该业务号对应的文件大小总和，修改到ObservationRequest查询出来的记录，然后update ObservationRequest的当前entity。

总结：就是对ObservationRequest表的update操作。

还是参数的校验，bll逻辑的各种判定，然后进行 crud 操作。

7.更新检查胶片数量

/// <summary>

/// 更新检查胶片数量

/// </summary>

/// <param name="query"></param>

/// <returns></returns>

[Route("v2/dataarchiving/update\_exam\_filmcount")]

[HttpPost]

public BaseReturnResult UpdateExamFilmCount([FromBody]ModifyExamFimlCountQuery query)

WCF：

var returnModel = \_imageArchiveClient.Invoke(i => i.ModifyExamFilmCount(query.ToQuery()));

依旧是对于ObservationRequest（观察请求记录）的upadate，先查ObservationRequest（观察请求记录）表的当前匹配条件的entity，然后查出Document（文档记录）表中的磁盘消耗，最终都update，体现到ObservationRequest（观察请求记录）表的记录中去。

var obs = \_observationRequestRepository.Table.Where(t => t.ObservationUID == query.ObservationUID).FirstOrDefault();

if (obs == null)

{

throw new Exception("查找不到ObservationRequest记录，ObservationUID=" + query.ObservationUID.ToString());

}

double diskSpace = 0;

var observationUID = query.ObservationUID.ToString();

var documentList = \_documentRepository.Table.Where(t => t.BusinessID == observationUID && t.DeleteFlag == false).ToList();

if (documentList != null && documentList.Count > 0)

{

foreach (var document in documentList)

{

if (document.FileSize != null)

{

diskSpace += document.FileSize.Value;

}

}

}

if (diskSpace > 0)

{

磁盘消耗每次操作都要计算啊。就是每次update操作顺便查，顺便记录进去。

obs.DiskSpace = IntHelpert.Round(diskSpace, 1048576.00);

}

obs.IsSummary = false;

obs.FilmCount = query.FilmCount;

obs.LastUpdateDate = DateTime.Now;

\_observationRequestRepository.Update(obs);

总结：这两张表也想着连起来查询，但一对多，还是单一，然后查询第二种获取所有记录，合适的。

测试是否运行到了这个表。



8.

9.

10.

11.

12.

一些：

##### 患者信息注册：输入参数

|  |  |  |  |
| --- | --- | --- | --- |
| **参数名称** | **描述** | **必选** | **值域说明** |
| -PatientID | 病人号(DES加密) | 必选 |  |
| -PIDAssigningAuthority | 病人号分配机构 | 必选 | 例如：17302.UIS 机构ID+“.”+检查科室类型 |
| -PatientMasterID | 病人主索引 | 可选 | 若是已经实现主索引，需要提供主索引值 |
| -Name | 病人姓名(DES加密) | 必选 |  |
| -NameSpell | 病人姓名拼音(DES加密) | 可选 |  |
| -MotherName | 母亲姓名(DES加密) | 可选 |  |
| -Sex | 性别(DES加密) | 必选 | 男、女、未知、未说明 |
| -BirthDate | 出生日期 | 必选 | yyyy-MM-dd HH:mm:ss |
| -BirthPlace | 出生地 | 可选 |  |
| -Nation | 民族 | 可选 |  |
| -Citizenship | 国籍 | 可选 |  |
| -MaritalStatus | 婚姻状况 | 可选 | 未婚、已婚、丧偶、离婚 |
| -IDCardNo | 身份证号(DES加密) | 必选 |  |
| -HealthCardNO | 健康卡号(DES加密) | 可选 |  |
| -ContactPhoneNO | 联系电话(DES加密) | 必选 |  |
| -HomePhoneNO | 家庭电话(DES加密) | 可选 |  |
| -BusinessPhoneNO | 工作电话(DES加密) | 可选 |  |
| -Email | 电子邮箱地址 | 可选 |  |
| -AddressProvince | 地址-省份 | 可选 |  |
| -AddressCity | 地址-城市 | 可选 |  |
| -AddressDistrict | 地址-区县 | 可选 |  |
| -AddressStreet | 地址-街道、乡镇 | 可选 |  |
| -AddressRoad | 地址-街、路、村 | 可选 |  |
| -AddressDetail | 地址-详细地址 | 可选 |  |
| -Postalcode | 邮政编码 | 可选 |  |
| -Occupation | 职业 | 可选 |  |
| -WorkUnit | 工作单位(DES加密) | 可选 |  |
| -InsuranceType | 医保类别 | 可选 |  |
| -InsuranceID | 医保号(DES加密) | 可选 |  |
| -OrganizationID | 组织机构ID(DES加密) | 必选 |  |
| **-**MedRecNO | 病历号(DES加密) | 可选 |  |
| -OutPatientNO | 门诊号(DES加密) | 可选 |  |
| **-**InPatientNO | 住院号(DES加密) | 可选 |  |
| **-**InHospitalFlag | 在院状态1在院其他不在院 | 可选 |  |

患者检查申请信息上传：

###### 输入参数

|  |  |  |  |
| --- | --- | --- | --- |
| **参数名称** | **描述** | **必选** | **值域说明** |
| -ObservationUID | 检查业务唯一号 | 可选 |  |
| -PatientID | 病人号(DES加密) | 必选 |  |
| -PIDAssigningAuthority | PatientID分配机构 | 必选 |  |
| -PatientMasterID | 关联病人主索引 | 必选 |  |
| -PatientClass | 病人类型， | 必选 | 门诊、急诊、住院、体检 |
| -OrganizationID | 该就诊所发生的组织机构(DES加密) | 必选 |  |
| -OrganizationName | 组织机构名 | 必选 |  |
| -ClinicInfoType | 临床信息分类 | 可选 | Exam：检查  Lab:检验 |
| -PlacerOrderNO | 申请号 (DES加密) | 可选 |  |
| -PlacerAssigningAuthority | 申请号分配机构名 | 可选 |  |
| -PlacerOrderDetailNO | 申请单明细号，多个以,分隔 | 可选 |  |
| -FillerOrderNO | 检查分配的号码，如检查的检查号、检验的检验号。(DES加密) | 可选 |  |
| -FillerAssigningAuthority | FillerOrderNO号码的分配机构名 | 可选 |  |
| -FillerPatientID | 检查分配病人号 | 可选 |  |
| -AccessionNumber | 检查号，用于DICOM访问。(DES加密) | 必选 |  |
| -ServiceID | 观察服务ID，如果是通过医嘱而来的，则与医嘱代码一致，如检查为检查项目ID、检验为检验主题ID | 必选 |  |
| -ServiceCodeScheme | 观察项目编码体系 | 可选 |  |
| -ServiceText | 观察服务内容(DES加密) | 可选 |  |
| -ServiceSectID | 观察服务类型ID | 必选 |  |
| -ProcedureID | 观察过程ID，如检查的检查部位ID，检验的检验项目ID | 可选 |  |
| -ProcedureName | 观察过程名称，如检查的检查部位名称，检验的检验项目名称 | 必选 |  |
| -ProviderID | 观察申请者ID | 可选 |  |
| -ProviderName | 观察申请者姓名 | 可选 |  |
| -ProviderPhone | 观察申请者电话 | 可选 |  |
| -RequestDeptID | 观察申请科室ID | 可选 |  |
| -RequestDeptName | 观察申请科室名称 | 可选 |  |
| -RequestedDate | 观察请求时间，申请时间 | 可选 |  |
| -ResultOrganizationID | 出结果的机构ID | 可选 |  |
| -ResultServiceCenterUID | 出结果的服务中心UID | 可选 |  |
| -Reason | 申请观察目的 | 可选 |  |
| -Attention | 申请观察注意事项 | 可选 |  |
| -Symptom | 症状体征 | 可选 |  |
| -AdverseReaction | 过敏及不良反应 | 可选 |  |
| -ClinicDiagnosis | 临床诊断 | 可选 |  |
| -RelevantClinicalInfo | 其他相关的临床信息 | 可选 |  |
| -FastingFlag | 是否空腹 | 可选 | 0非空腹，1空腹 |
| -TransportationMode | 病人运输方式 | 可选 | CART:车或担架、PORT:床边、WALK:行走、WHLC:轮椅 |
| -ResultStatus | 检查结果状态名称 | 可选 | 附录1.5.2 |
| -ResultStatusCode | 检查结果状态代码 | 可选 | 附录1.5.2 |
| -RegTime | 登记时间 | 必选 |  |
| -RegisterID | 检查登记员ID | 可选 |  |
| -RegisterName | 检查登记员姓名 | 可选 |  |
| -ObservationDeptID | 检查执行科室ID | 可选 |  |
| -ObservationDeptName | 检查执行科室名称 | 可选 |  |
| -ObservationDate | 检查时间 | 必选 |  |
| -ObservationEndDate | 检查结束时间 | 可选 |  |
| -ObservationLocation | 检查发生的场所 | 可选 | 如检查房间 |
| -ObservationEquipmentID | 检查设备的ID | 可选 |  |
| ObservationEquipment | 检查设备名称 | 可选 |  |
| -ObservationMethod | 保存该观察的所有观察方法 | 可选 |  |
| -StudyInstanceUID | 检查实例UID | 可选 | 多个以,分割开。 |
| -TechnicianID | 检查技师ID | 可选 |  |
| -TechnicianName | 检查技师名称 | 可选 |  |
| -ResultPrincipalID | 结果主要负责人ID，如报告审核医生。同ObservationResult表中相应字段值 | 可选 |  |
| -ResultPrincipalName | 结果主要负责人姓名，如报告审核医生。同ObservationResult表中相应字段值 | 可选 |  |
| -ResultReviseID | 结果修订者ID | 可选 |  |
| -ResultReviseName | 结果修订者 | 可选 |  |
| -ResultAssistantID | 结果助理ID，如报告医生。同ObservationResult表中相应字段值 | 可选 |  |
| -ResultAssistantName | 结果助理姓名，如报告医生。同ObservationResult表中相应字段值 | 可选 |  |
| -ResultAssistantPhone | 报告医生电话 | 可选 |  |
| -PreliminaryDate | 初步结果时间，如检查的初步报告时间 | 可选 |  |
| -AuditDate | 初步结果时间，如检查的初步报告时间 | 可选 |  |
| -ReviseDate | 结果修订时间 | 可选 |  |
| -ResultDate | 最后的结果时间，报告状态时为报告时间，审核状态时为审核时间，修订时为修改时间。 | 可选 |  |
| -AbnormalFlags | 异常标志，如放射结果的阴阳性 | 可选 |  |
| -CriticalValue | 危急值 | 可选 |  |
| -ResultPrintCount | 是否已打印 | 可选 |  |
| -InfectionName | 传染病 | 可选 |  |
| -Charges | 检查费用，单位为元 | 可选 |  |
| -Payments | 病人实际支付费用，单位为元 | 可选 |  |
| -PaymentsFlag | 付款标志，0未付款(未收费)、1已付款(已收费) | 可选 |  |
| -FilmCount | 胶片数 | 可选 |  |
| -FilmNeed | 是否需要胶片，0不需要，1需要 | 可选 |  |
| -HasImage | 是否有影像 | 可选 |  |
| -ImageLocation | 影像位置，0:影像在医院内、1:影像在区域中心 | 可选 |  |
| -DataSource | 检查科室代码 | 可选 | 见附录1.5.3 |
| -DiskSpace | 消耗磁盘空间（Mb） | 可选 |  |
| -SourceOrganizationID | 检测机构ID | 可选 |  |
| -SourceOrganizationName | 检测机构名字 | 可选 |  |
| -AdmitDeptID | 住院入院科室ID，门诊就诊科室ID | 可选 |  |
| -AdmitDeptName | 住院入院科室名称，门诊就诊科室名称 | 可选 |  |
| -PointOfCare | 住院时为病区，非住院时时同就诊科室 | 可选 |  |
| -PointOfCareID | 住院时为病区ID，非住院时时同就诊科室ID | 可选 |  |
| -Room | 住院时为病房，非住院时为诊间 | 可选 |  |
| -Bed | 病床 | 可选 |  |
| -CurPatCondition | 当前病情状态。 | 可选 | 1危重 2急症 3疑难 |
| **-**MedRecNO | 病历号(DES加密) | 可选 |  |
| -OutPatientNO | 门诊号(DES加密) | 可选 |  |
| **-**InPatientNO | 住院号(DES加密) | 可选 |  |
| **-**CardType | 就诊卡类型 | 可选 |  |
| **-**CardNO | 就诊卡号(DES加密) | 可选 |  |
| **-**Age | 年龄 | 可选 |  |
| **-**AgeUnit | 年龄单位 | 可选 | 岁、月、周、天 |

数据采集第二版：

1.

保存病人信息WCF：

/// <summary>

/// 保存病人信息

/// </summary>

/// <param name="query"></param>

/// <returns></returns>

public BaseResult SavePatientInfo(PatientIndexInfo patientIndexInfo)

{

return \_clinicManageService.SavePatientInfo(patientIndexInfo);

}

#endregion

值单独操作了病人主索引这一张表：

var item = \_patientIndexRepository.Table.FirstOrDefault(t => t.PatientID == patientIndexInfo.PatientID && t.PIDAssigningAuthority == patientIndexInfo.PIDAssigningAuthority);

if (item == null)

{

item = new PatientIndex();

mapExp = Mapper.CreateMap<PatientIndexInfo, PatientIndex>();

mapExp.ForMember(o => o.CreateDate, dto => dto.Ignore());

mapExp.ForMember(o => o.LastUpdateDate, dto => dto.Ignore());

item = Mapper.Map<PatientIndexInfo, PatientIndex>(patientIndexInfo, item);

item.CreateDate = DateTime.Now;

item.LastUpdateDate = DateTime.Now;

\_patientIndexRepository.Insert(item);

patientIndexInfo.CreateDate = item.CreateDate;

patientIndexInfo.LastUpdateDate = item.LastUpdateDate;

}

else

{

mapExp = Mapper.CreateMap<PatientIndexInfo, PatientIndex>();

mapExp.ForMember(o => o.CreateDate, dto => dto.Ignore());

mapExp.ForMember(o => o.LastUpdateDate, dto => dto.Ignore());

item = Mapper.Map<PatientIndexInfo, PatientIndex>(patientIndexInfo, item);

item.LastUpdateDate = DateTime.Now;

\_patientIndexRepository.Update(item);

patientIndexInfo.LastUpdateDate = item.LastUpdateDate;

}

患者注册走的WCF：

#region 患者检查归档（第三方接口）

/// <summary>

/// 患者注册

/// </summary>

/// <param name="query"></param>

/// <returns></returns>

[OperationContract]

ModelResult<Guid> SaveExamDataInfo(DataArchivingQuery query);

\_patientManageService.GetPatientIndex(patient);

通过一个查询病人信息的方法进行插入数据，但是插入完成之后又查询了一次，来区别是否要插入还是update，不知道为什么

var item = \_patientIndexRepository.Table.FirstOrDefault(t => t.PatientID == patientIndexInfo.PatientID && t.PIDAssigningAuthority == patientIndexInfo.PIDAssigningAuthority);

if (item == null)

{

item = new PatientIndex();

mapExp = Mapper.CreateMap<PatientIndexInfo, PatientIndex>();

mapExp.ForMember(o => o.CreateDate, dto => dto.Ignore());

mapExp.ForMember(o => o.LastUpdateDate, dto => dto.Ignore());

item = Mapper.Map<PatientIndexInfo, PatientIndex>(patientIndexInfo, item);

item.CreateDate = DateTime.Now;

item.LastUpdateDate = DateTime.Now;

\_patientIndexRepository.Insert(item);

patientIndexInfo.CreateDate = item.CreateDate;

patientIndexInfo.LastUpdateDate = item.LastUpdateDate;

}

else

{

mapExp = Mapper.CreateMap<PatientIndexInfo, PatientIndex>();

mapExp.ForMember(o => o.CreateDate, dto => dto.Ignore());

mapExp.ForMember(o => o.LastUpdateDate, dto => dto.Ignore());

item = Mapper.Map<PatientIndexInfo, PatientIndex>(patientIndexInfo, item);

item.LastUpdateDate = DateTime.Now;

\_patientIndexRepository.Update(item);

patientIndexInfo.LastUpdateDate = item.LastUpdateDate;

}

拼接内容：

FillerAssigningAuthority（观察分配机构名）如果为空

就是OrganizationID+ DataSource+ ServiceSectID



//数据采集从影像中心采集由于该值不存在，获取检查记录时根据检查号匹配（检查号一致，检查号机构不一致）错误

if (string.IsNullOrWhiteSpace(query.ObservationRequest.FillerAssigningAuthority))

{

string assigningAuthority = query.ObservationRequest.OrganizationID;

if (!string.IsNullOrWhiteSpace(query.ObservationRequest.DataSource))

{

assigningAuthority += "." + query.ObservationRequest.DataSource;

}

if (!string.IsNullOrWhiteSpace(query.ObservationRequest.ServiceSectID))

{

assigningAuthority += "." + query.ObservationRequest.ServiceSectID;

}

query.ObservationRequest.FillerAssigningAuthority = assigningAuthority;

}

2.

3.

4.

5.

6.

检查数据共享：

1.

获取短链接参数

/// <summary>

/// 获取授权访问短链接参数

/// </summary>

/// <param name="query">条件</param>

/// <returns>查询结果</returns>

[Route("v2/public/get\_shorturl\_parameter")]

[HttpPost]

public ModelReturnResult<ShortUrlResult> GetShortUrlParameter([FromBody]GetShortUrlRequest query)

WCF服务：

var returnmodel = \_imageArchiveClient.Invoke(i => i.GetShortUrlParameter(query.ToQuery()));

需要去校验短链接是否过期

if (model.AccessMode.HasValue && model.AccessMode.Value == 2 && model.ExpireTime.Value < DateTime.Now)//时效性访问，判断是否过期

{

result.msg = "此短链已过期";

}

入参：

{

"accessId":"93183829734ccc4c"

}

返回：

{

"code": 0,

"msg": "OK",

"data": {

"Kind": 3,

"AccessMode": 0,

"PatientMasterID": "db2c153e-36f9-44df-bf68-cc679efa91e5",

"IDCardNO": null,

"ObservationUID": "3a8e1d8a-7dbf-4ff3-be59-d7cbe0db81ce",

"AccessionNumber": "618356",

"HospitalId": "2486",

"Modality": "CT",

"CustomParamContent": null

}

}

2.

获取检查列表

/// <summary>

/// 获取相关检查列表

/// </summary>

/// <param name="query">查询条件</param>

/// <returns></returns>

[Route("v2/public/get\_relatedexam\_list")]

[HttpPost]

public ModelReturnResult<GetRelatedExamListDTO> GetRelatedExamList([FromBody]GetRelatedExamQuery query)

入参：

/// <summary>

/// 相关检查列表请求参数

/// </summary>

public class GetRelatedExamQuery : BasePageQuery

{

/// <summary>

/// 用户唯一号

/// </summary>

public string PatientMasterID { get; set; }

/// <summary>

/// 检查号唯一号

/// </summary>

public string ObservationUID { get; set; }

}

参数：

2个：

用户唯一号，检查业务唯一号不能为空（query.ObservationUID) ，(query.PatientMasterID))

WCF：

var resultdata = \_imageArchiveClient.Invoke(t => t.GetRelatedExamList(relatedQuery));

接口通的，就是没整明白为什么这里要分页，这两个入参，难道会有很多的结果集？

病人+唯一的检查号，不是就表明是唯一的结果了？

入参：

{

"PatientMasterID":"8ab73c3f-0aa8-4e9c-95fa-3ae79d4522cd",

"ObservationUID":"28914756-9544-4d50-9ccf-8b766c3fb565"

}

结果：

{

"code": 0,

"msg": "ok",

"data": {

"DataList": [

{

"OrganizationName": "1E65408A9D9BCDFB94084E78D29F48416945CC3514768E55AF741E8891119D72C30E5EE78F38CE8F",

"OrganizationID": "557175DE00BFFB2B",

"ObservationUID": "83f5d0cb-6885-4a20-92a1-d9ecd40bcdfa",

"Name": "95927258CF07D8329527472A9B9E2D5C",

"Sex": "CF067241960EED86",

"BirthDate": null,

"AccessionNumber": "C147E9671F0B9EBB5D879367D9B25847",

"ServiceSectID": "DX",

"PatientClass": "普通",

"ArchiveDate": "2018-12-18T10:01:09",

"FileSize": 7.9596719741821289,

"ProcedureName": "胸部正位",

"ResultDate": "2017-12-13T09:27:32",

"PatientID": "9E7BD662912232F1",

"PIDAssigningAuthority": "2470.RIS.DX",

"ServiceText": "普通摄片",

"InPatientNO": null,

"OutPatientNO": null,

"DataSource": "RIS",

"DataSourceName": "放射科",

"ObservationDate": "2018-11-26T09:03:23",

"ClinicInfoType": "Exam",

"PatientMasterID": "8ab73c3f-0aa8-4e9c-95fa-3ae79d4522cd",

"AuditDate": "2017-12-13T09:27:32",

"MedRecNO": "7FA22D5446120AD1CD708B9254A54C8E",

"VisitUID": "71ae1916-e4fa-448f-be30-8a82b4877e79",

"AbnormalFlags": "阳性",

"CriticalDesc": ""

}

],

"PageInfo": {

"PageIndex": 1,

"PageSize": 10,

"TotalCount": 1,

"TotalPages": 1

}

}

}

3.

获取检查详情

三个接口用到，wcf是同一个：

/// <summary>

/// 获取检查详情

/// </summary>

/// <returns></returns>

[Route("v2/public/get\_exam\_info")]

[HttpPost]

public ModelReturnResult<PatientExamDetailResultDTO> GetPatientExamInfo([FromBody]PatientExamDetailRequest query)

参数：

result.msg = "检查号，身份证号，检查业务唯一号不能同时为空";

必传：

query.hospitalId 机构解密

query.modality 检查类型

WCF：

var resultdata = \_imageArchiveClient.Invoke(t => t.GetPatientExamInfo(query.ToQuery()));

4.

5.

6.

7.

8.

9.

**采集：**

1.

查询Job服务程序信息列表

/// <summary>

/// 根据条件查询Job服务程序列表信息

/// </summary>

/// <param name="query">查询条件</param>

/// <returns>查询结果</returns>

[Route("Job/GetJobServerList")]

[HttpPost]

public PageResult<JobServerInfo> GetJobServerList([FromBody]JobServerQuery query)

WCF服务：

var saveExamRes = \_imageArchiveClient.Invoke(t => t.GetJobServerList(query));

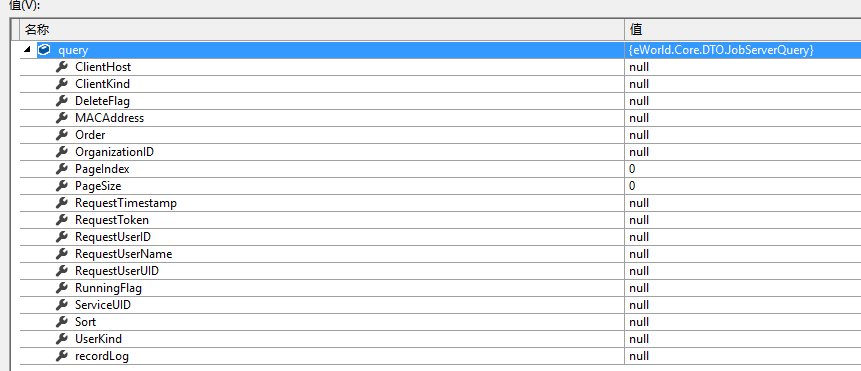
入参：

{

}

如果什么都不填，就报错。

一个大括号，这边检测的值就是：



结果：

{

"PageIndex": 1,

"TotalPage": 1,

"TotalCount": 7,

"ResultList": [

{

"ServiceUID": "300a0c7e-cccc-4451-9d15-c82c7ef092df",

"ServiceName": "杭州市西湖区中医院",

"MACAddress": "00:50:56:9E:96:20",

"IP": "192.168.2.75",

"HostName": "zhang-PC",

"RunningFlag": false,

"ControlCode": null,

"CreateDate": "2018-07-11T11:27:21",

"DeleteFlag": false,

"OrganizationID": "321084100000",

"UserName": "100008",

"Password": "3147CB05F050899E",

"Version": "1.0.3.2018063007\_beta",

"IsNeedUpdate": null,

"RequestUserUID": null,

"RequestUserID": null,

"RequestUserName": null,

"RequestTimestamp": null,

"RequestToken": null,

"UserKind": null,

"ClientKind": null,

"recordLog": null,

"ClientHost": null

},

{

"ServiceUID": "48410be4-d898-4229-b092-abfdd98e37f3",

"ServiceName": "西安交通大学第一医院",

"MACAddress": "00:50:56:9E:96:20",

"IP": "192.168.10.77",

"HostName": "WIN-UD350RB0BNH",

"RunningFlag": false,

"ControlCode": null,

"CreateDate": "2018-02-28T11:03:00",

"DeleteFlag": false,

"OrganizationID": "17302",

"UserName": "100209",

"Password": "C7974E0248E6F71E46B07265A901A050",

"Version": null,

"IsNeedUpdate": null,

"RequestUserUID": null,

"RequestUserID": null,

"RequestUserName": null,

"RequestTimestamp": null,

"RequestToken": null,

"UserKind": null,

"ClientKind": null,

"recordLog": null,

"ClientHost": null

},

{

"ServiceUID": "858298bd-a20e-49c4-942a-d7040e98dc18",

"ServiceName": "浙江大学医学院附属邵逸夫医院",

"MACAddress": null,

"IP": "192.168.10.77",

"HostName": null,

"RunningFlag": false,

"ControlCode": 0,

"CreateDate": "2018-12-20T15:52:24",

"DeleteFlag": false,

"OrganizationID": "17303",

"UserName": "100006",

"Password": null,

"Version": null,

"IsNeedUpdate": null,

"RequestUserUID": null,

"RequestUserID": null,

"RequestUserName": null,

"RequestTimestamp": null,

"RequestToken": null,

"UserKind": null,

"ClientKind": null,

"recordLog": null,

"ClientHost": null

},

{

"ServiceUID": "ab67ddc8-a9d3-4a3b-a6d7-107d468264f1",

"ServiceName": "杭州市西湖区留下人民医院",

"MACAddress": "60:A4:4C:62:78:40",

"IP": "192.168.3.45",

"HostName": "WINDOWS-LD9T674",

"RunningFlag": true,

"ControlCode": null,

"CreateDate": "2017-11-02T14:45:46",

"DeleteFlag": false,

"OrganizationID": "2470",

"UserName": "100005",

"Password": "C7974E0248E6F71E46B07265A901A050",

"Version": "1.0.6.2018122001\_beta",

"IsNeedUpdate": null,

"RequestUserUID": null,

"RequestUserID": null,

"RequestUserName": null,

"RequestTimestamp": null,

"RequestToken": null,

"UserKind": null,

"ClientKind": null,

"recordLog": null,

"ClientHost": null

},

{

"ServiceUID": "cbe9cdd4-20dd-41b2-97f4-e4d853b11e28",

"ServiceName": "嘉兴测试机构",

"MACAddress": "D0:17:C2:8C:49:D7",

"IP": "192.168.1.45",

"HostName": "WINDOWS-LD9T674",

"RunningFlag": false,

"ControlCode": 0,

"CreateDate": "2018-04-24T15:35:57",

"DeleteFlag": false,

"OrganizationID": "1",

"UserName": "100214",

"Password": "3147CB05F050899E",

"Version": null,

"IsNeedUpdate": false,

"RequestUserUID": null,

"RequestUserID": null,

"RequestUserName": null,

"RequestTimestamp": null,

"RequestToken": null,

"UserKind": null,

"ClientKind": null,

"recordLog": null,

"ClientHost": null

},

{

"ServiceUID": "cc66b42a-7e27-44ab-abe4-76cbae2c3b1e",

"ServiceName": "高邮市三垛中心卫生院",

"MACAddress": "1C:1B:0D:BD:B6:5F",

"IP": "192.168.3.45",

"HostName": "WINDOWS-LD9T674",

"RunningFlag": false,

"ControlCode": null,

"CreateDate": "2018-01-16T09:25:07",

"DeleteFlag": false,

"OrganizationID": "17030",

"UserName": "100052",

"Password": "3147CB05F050899E",

"Version": "1.0.6.2018122001\_beta",

"IsNeedUpdate": null,

"RequestUserUID": null,

"RequestUserID": null,

"RequestUserName": null,

"RequestTimestamp": null,

"RequestToken": null,

"UserKind": null,

"ClientKind": null,

"recordLog": null,

"ClientHost": null

},

{

"ServiceUID": "d1fd0d72-c8d0-4d61-a1c4-ea6d1f15fb85",

"ServiceName": null,

"MACAddress": "D0:17:C2:8C:49:D7",

"IP": "192.168.3.45",

"HostName": "WINDOWS-LD9T674",

"RunningFlag": false,

"ControlCode": null,

"CreateDate": "2018-11-28T12:01:10",

"DeleteFlag": false,

"OrganizationID": "123308244720006231",

"UserName": "100408",

"Password": "3147CB05F050899E",

"Version": "1.0.5.2018112801\_beta",

"IsNeedUpdate": null,

"RequestUserUID": null,

"RequestUserID": null,

"RequestUserName": null,

"RequestTimestamp": null,

"RequestToken": null,

"UserKind": null,

"ClientKind": null,

"recordLog": null,

"ClientHost": null

}

],

"code": 0,

"msg": "成功",

"info": null

}

单纯传页码和每页的数量，反而错误了。

{

"PageIndex":1,

"PageSize":7

}

{

"PageIndex": 0,

"TotalPage": 0,

"TotalCount": 0,

"ResultList": null,

"code": -1,

"msg": "必须指定排序字段!",

"info": null

}

这样三个参数就可以了。

{

"PageIndex":2,

"PageSize":3,

"Sort":"ServiceUID"

}

2.

3.

4.

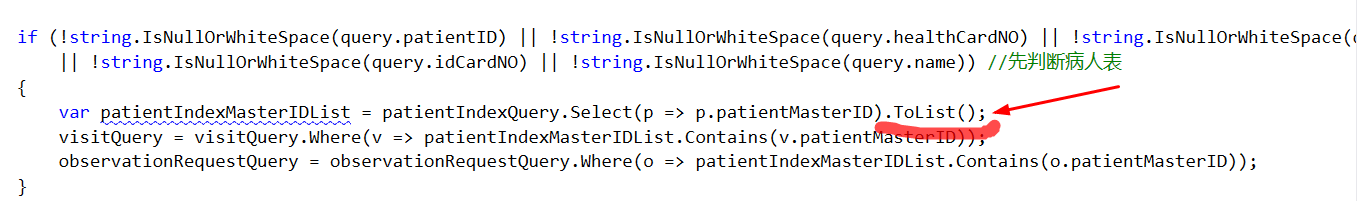
1.

没有dal层的，逻辑层和dal层完全混在一起，四百行代码的样子。

逻辑判断的同时对数据库进行操作：



一系列判断和查询之后，在这个方法将数据库断开连接，此时所有的数据加载到了内存中进行组装



多次连接，断开数据库，每次都是操作所有满足条件的数据。

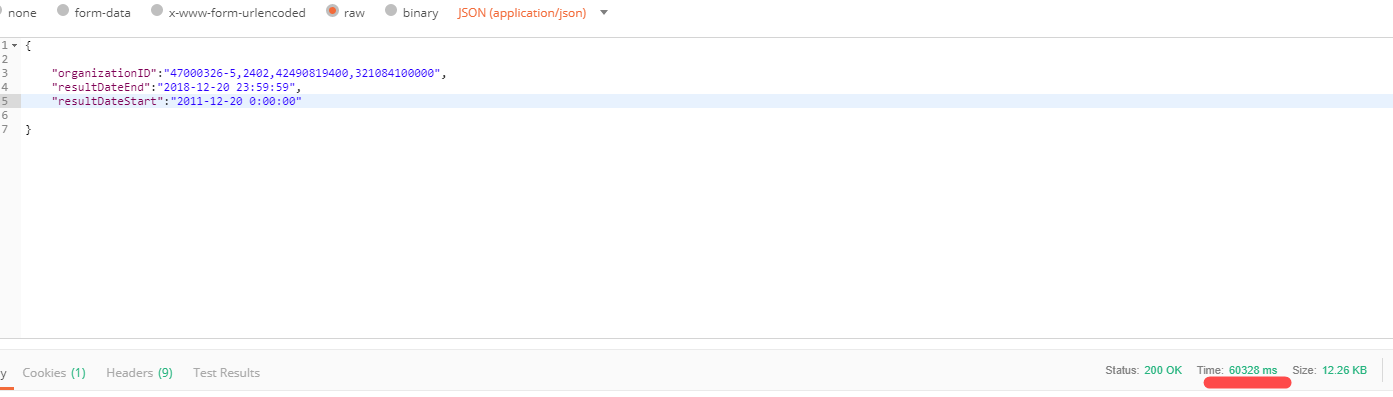


最后来的分页已经没有意义了，所有的符合条件的数据一开始就全部加载出来了

result = observationRequestQuery.Skip((query.PageIndex - 1) \* query.PageSize).Take(query.PageSize).ToList();

2.

优化中。



这样的时间，接口返回数据的时间炸了。

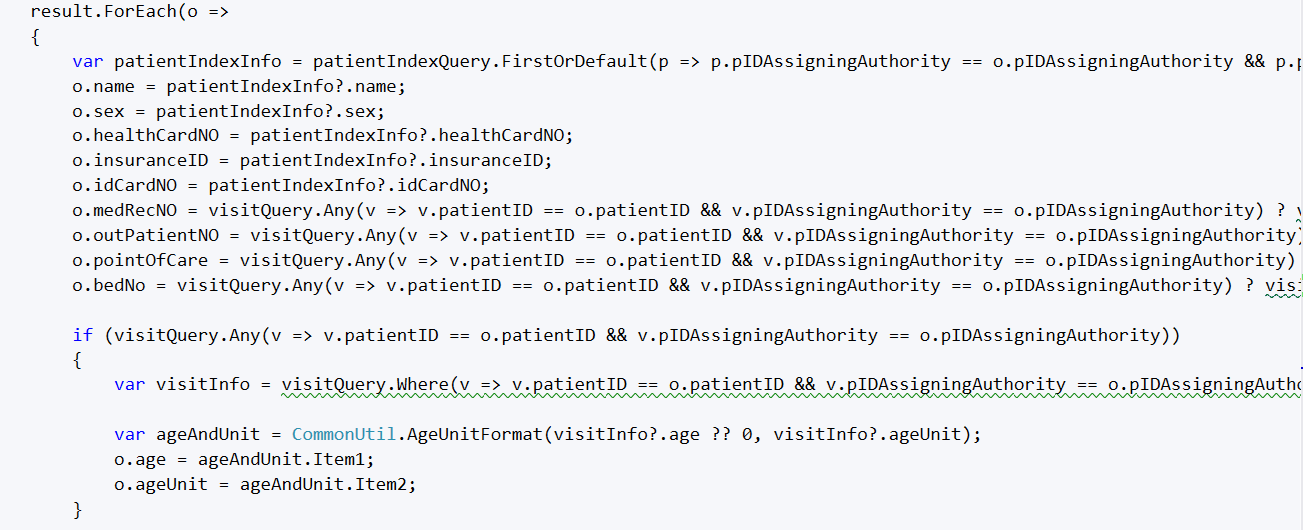
入参

"organizationID":"47000326-5,2402,42490819400,321084100000",

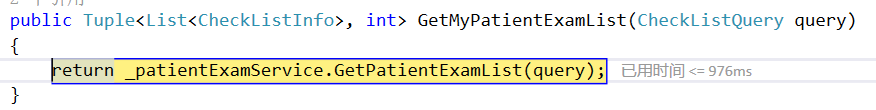
"resultDateEnd":"2018-12-20 23:59:59",

"resultDateStart":"2018-10-20 0:00:00"

基本诊断为分页后装配数据的地方，浪费了很多时间



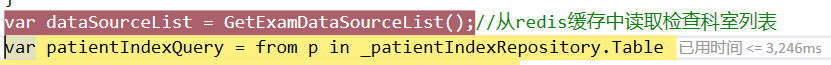
调用wcf：



或者



重新生成后，怎么从redis中读取这么慢。

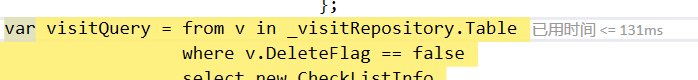


之后从redis中读取就很快了。

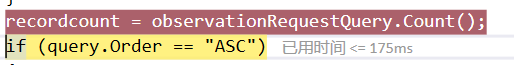


三个sql语句也是不少时间





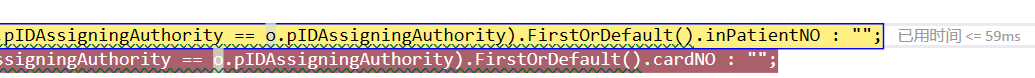
这个count，能去掉的话也很好



分页消耗：



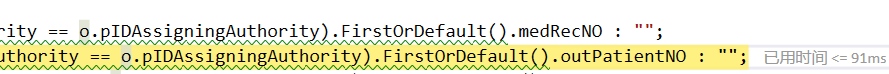
foreach里面，十次，那感觉也只需要，差不多2秒啊





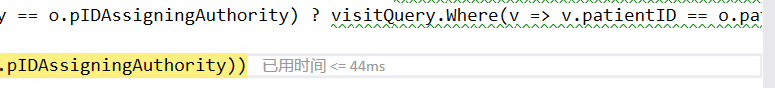
列举foreach里面大的一些个判定:

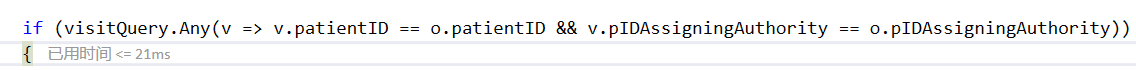
第一个21 ms

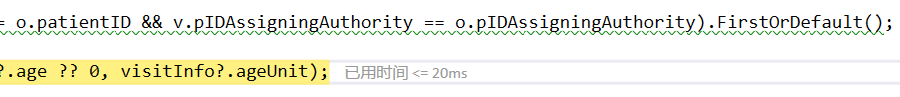




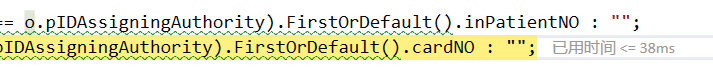


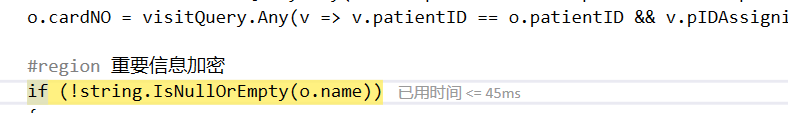






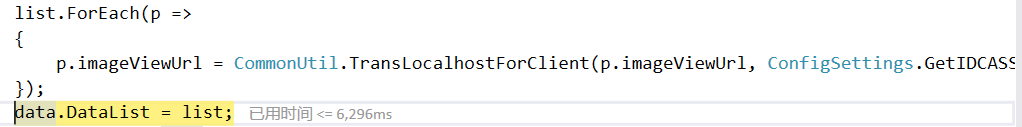




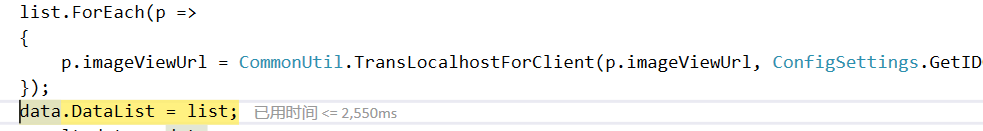


差不多370，倒也不是很慢啊，感觉。

WebApi层，这个又是怎么回事啊。



这玩意果然耗时间



总结下：

（1）wcf的调用，耗费在1秒

（2）count()方法的去除 200ms

（3）foreach中的优化，平均循环一次400ms的样子

（4）最后的DataList循环调用，三四千毫秒的样子

整体一个循环，1页，1条数据的情况，2秒不到一点，差不多吻合。



3.

测试了，和页码PageIndex无关，而跟单页数据量的多少有关

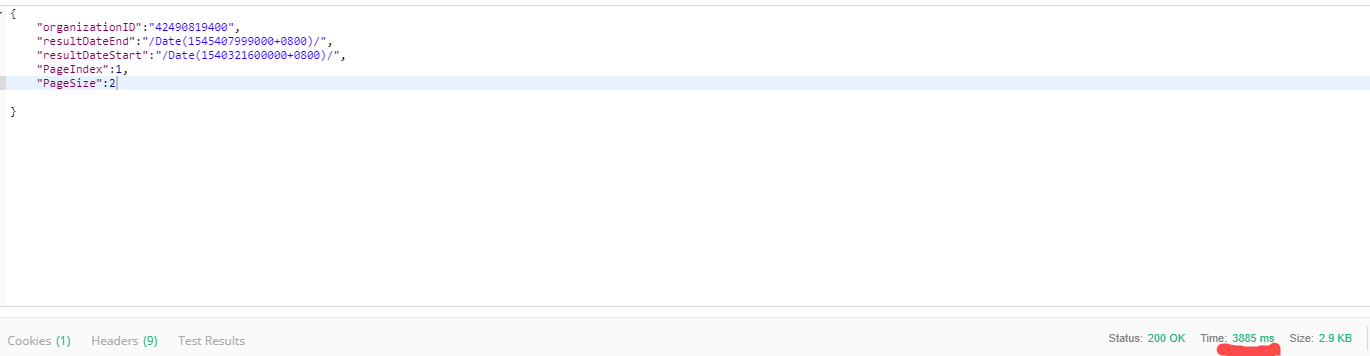


1824



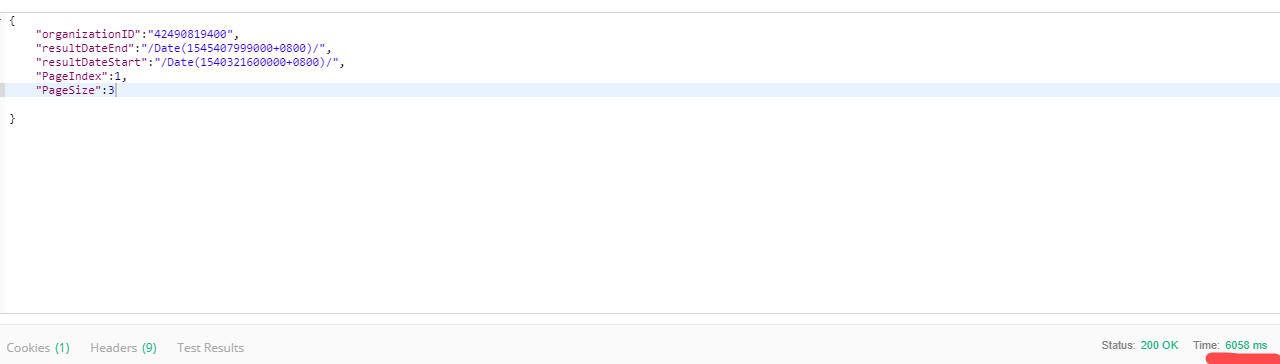
当为1，2

3885

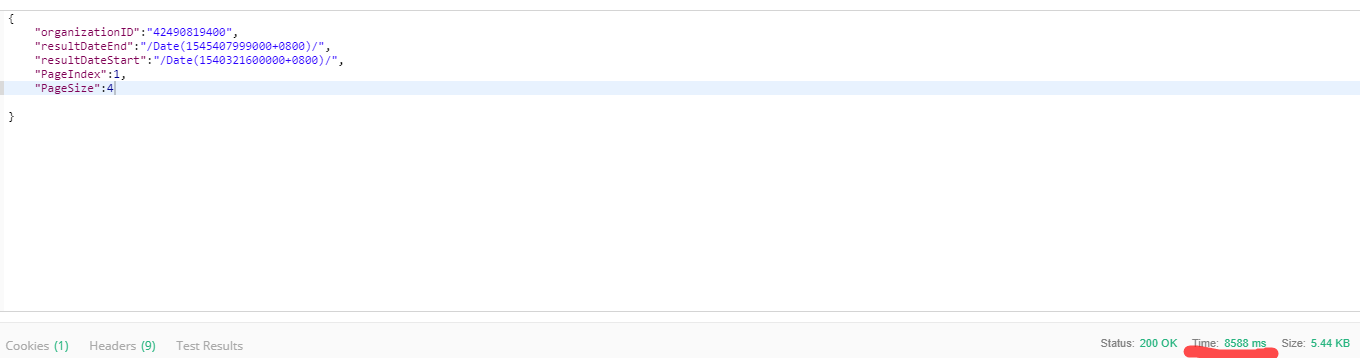


1，3

6058ms



1，4

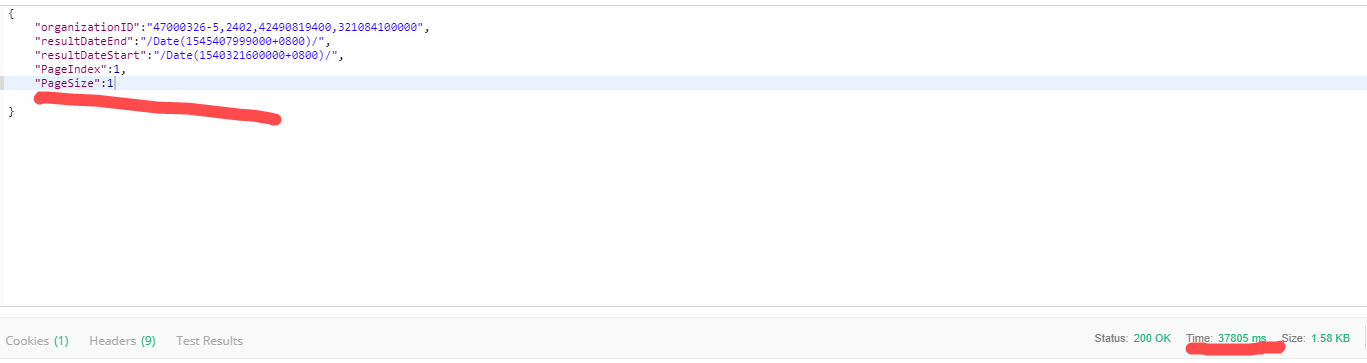


就是主要递增，而如果组织变成多个，直接变成最初的60s了，当同样每页10个数据。

如果1，1（一页一个）

37805ms，半分多钟了。

所以这个代码根据就不适合用多条件，这里的组织



8499

4.

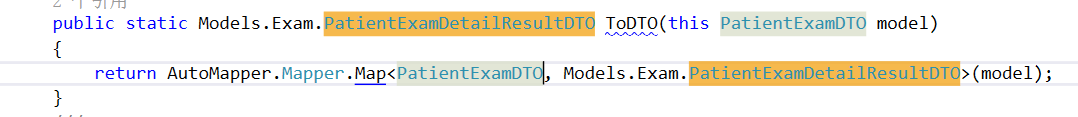
详情

web api中create map

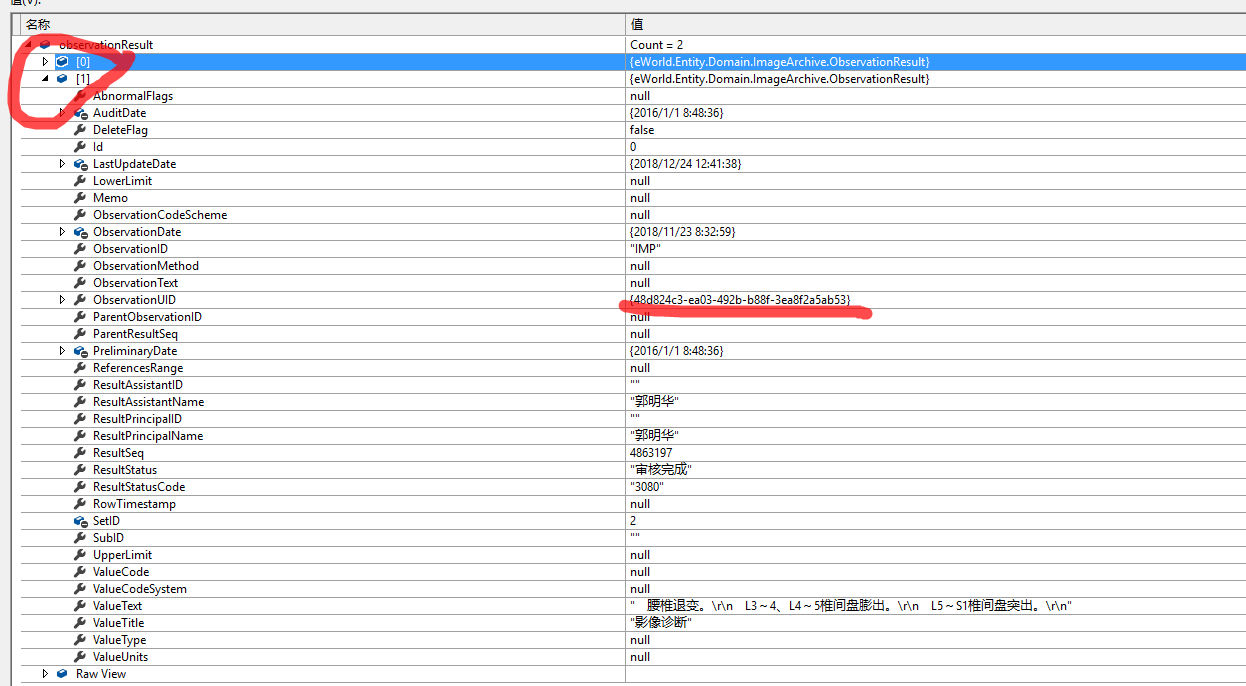


ToDTO里面实现映射。

data = resultdata.Result.ToDTO();

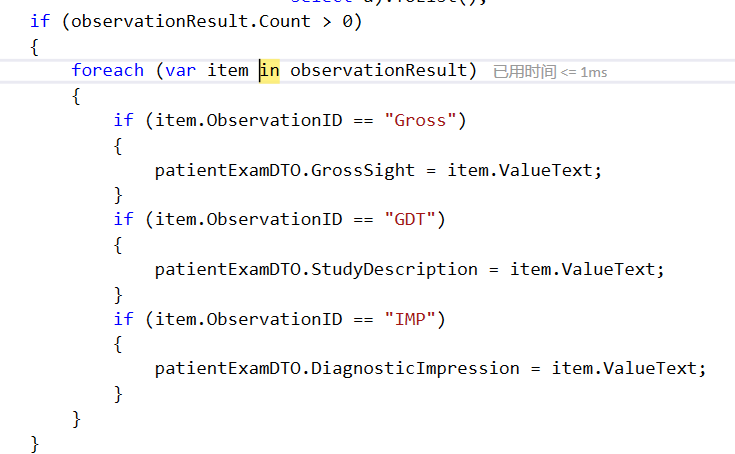


同一个观察ID，出现两条观察结果



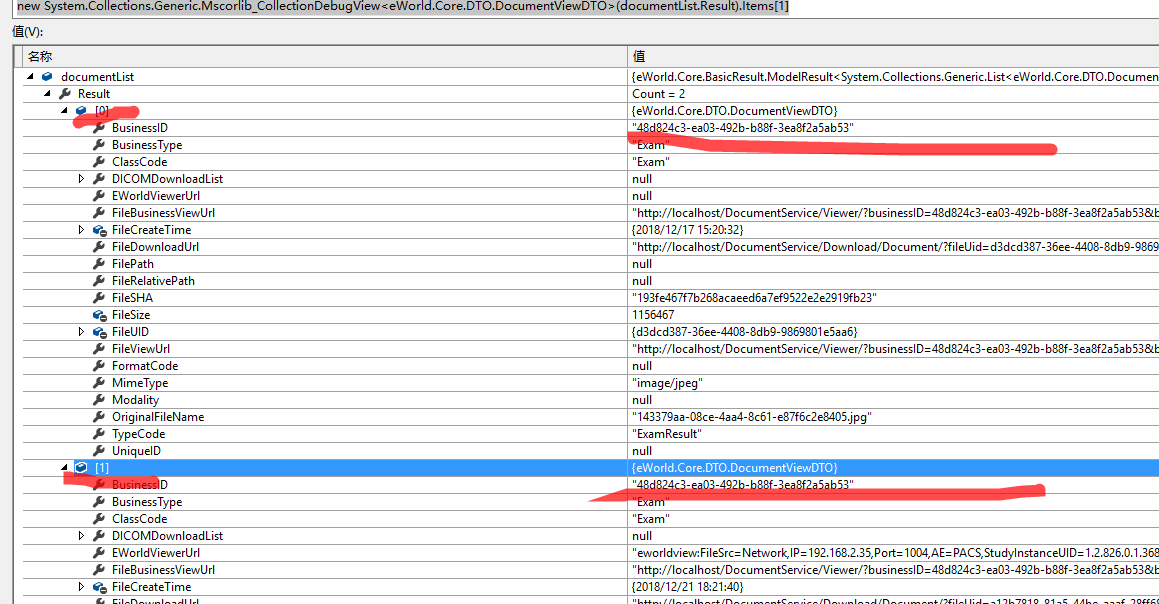
这里对于观察结果，for循环，获取的不是最后一个的结果么

不对，这里一个是影像所见，一个是诊断信息。

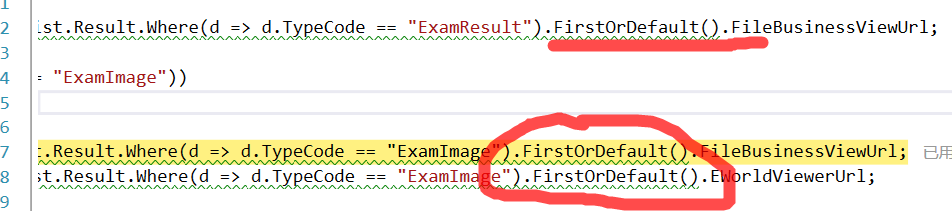


所以，正常的情况下，一个观察请求对应的，就是有两条观察结果的。

对应的Document表中也有两条数据：

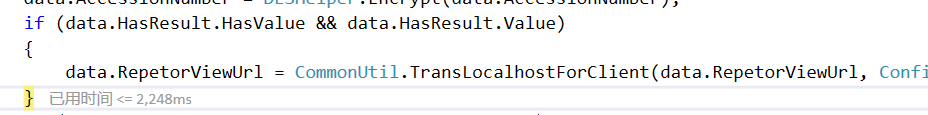


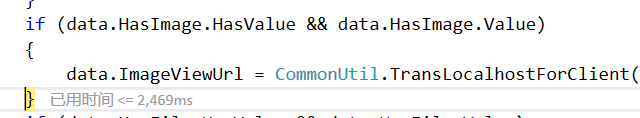
最终用的数据还是第一个



问题：

数据的dto之后





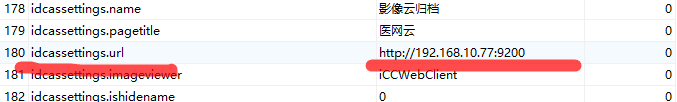
//获取相关检查的数量时，为什么要减1呢？

patientExamDTO.RelatedExamCount = relatedExamCount - 1;

涉及到病人主索引，观察请求，结果表，就诊visit表，然后去DataSourceSetup（数据来源对应检查类型）表中获取名称，再去document表中获取url地址，

"name":"95927258CF07D8329527472A9B9E2D5C",

5.



获取这个配置

6.

优化的问题在于获取配置数据上，要获取所有的，然后去获取当前的，现在参照协同，直接获取当前所需的，就ok了。

public static class ConfigDefine

{

private static readonly IDCASSettings \_idcasSettings = EngineContext.Current.Resolve<IDCASSettings>(); //影像存储共享设置

public static ILog \_log = LogManager.GetLogger(typeof(ConfigDefine));

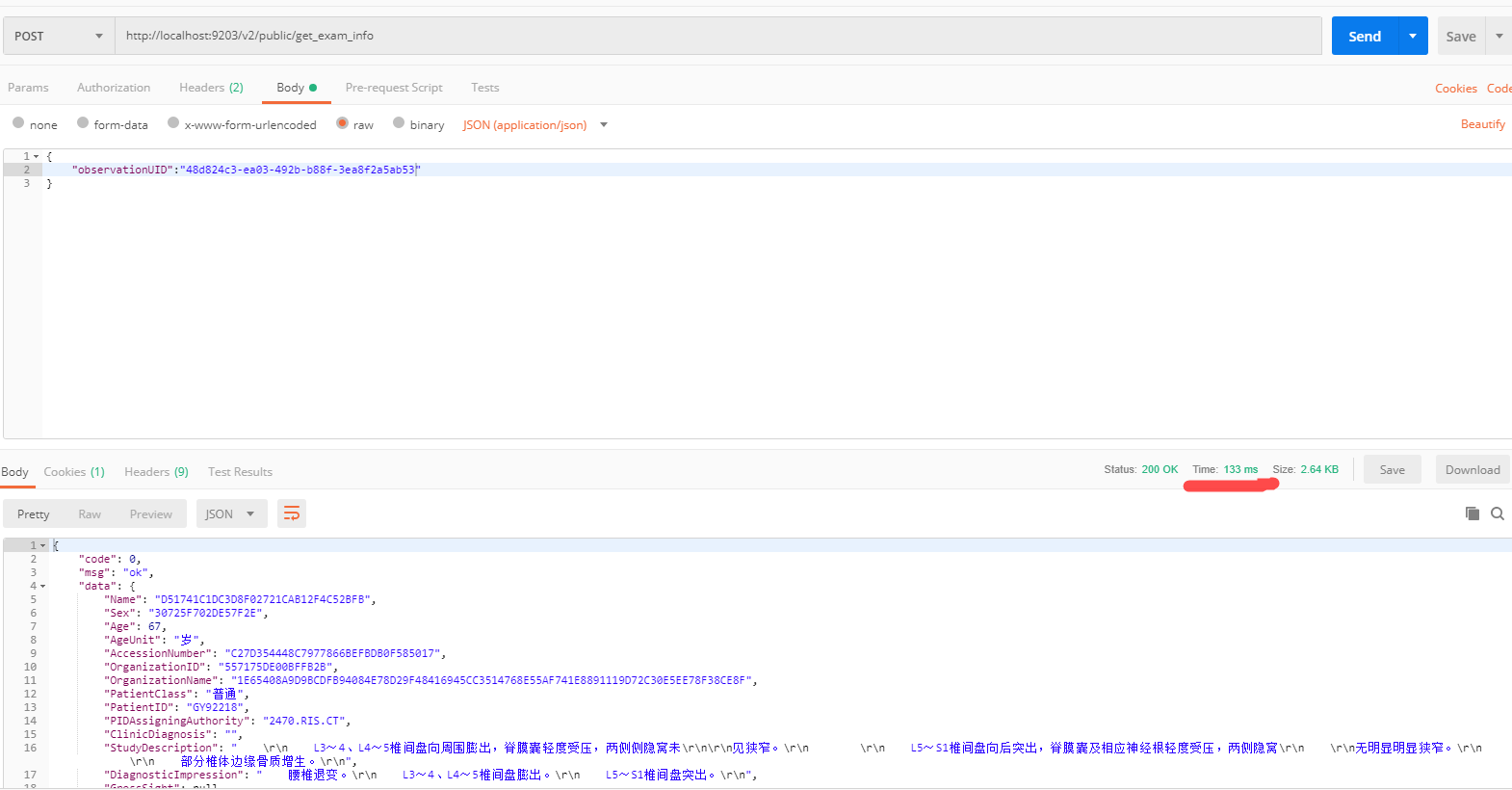
/// <summary>

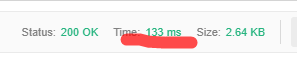
/// 网站地址

/// </summary>

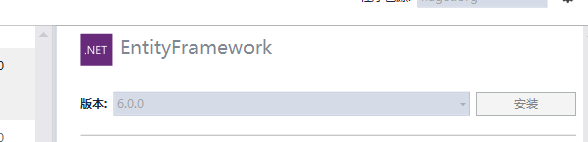
public static string Url => \_idcasSettings.Url;

瞬间ok了。





7.



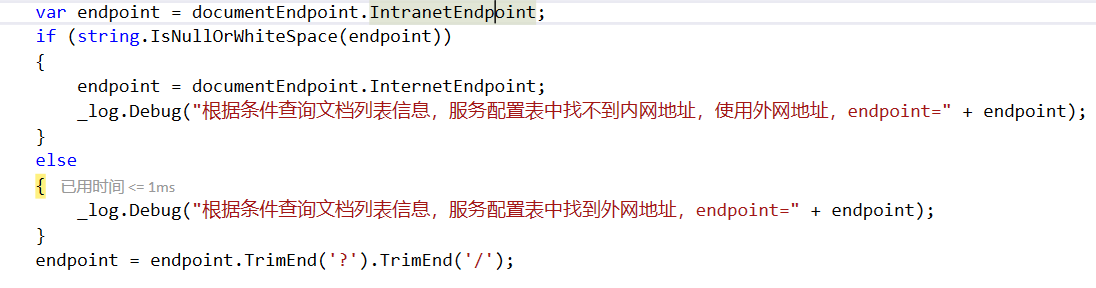
搞了半天，分支版本是曹兵漏传东西了。

202去发布

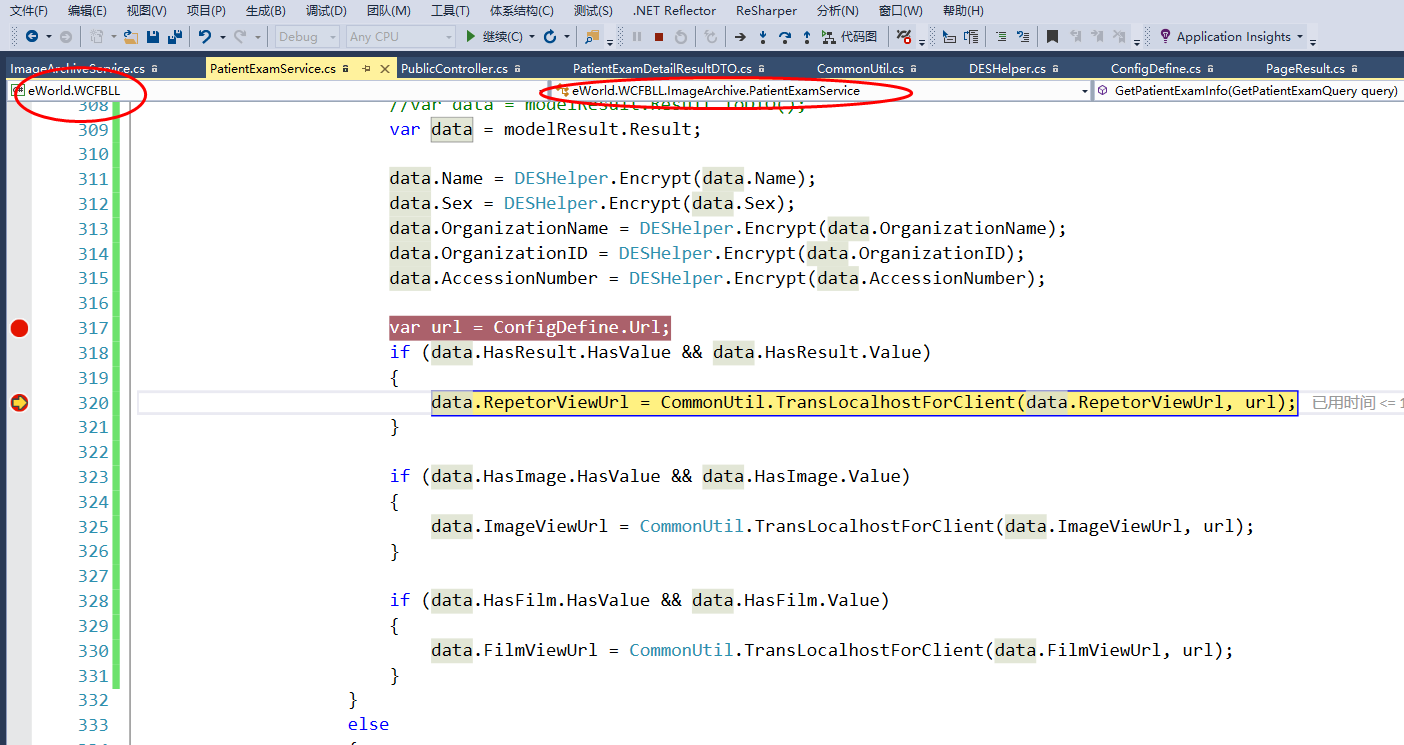
8.

问题1：

这里为什么优先使用内网地址？用外网不就直接拿到文档地址了。



问题2，把url结果处理放在bll层，可不可以。



放到了bll层

//更改（到时候删除）

//var data = modelResult.Result.ToDTO();

var data = modelResult.Result;

data.Name = DESHelper.Encrypt(data.Name);

data.Sex = DESHelper.Encrypt(data.Sex);

data.OrganizationName = DESHelper.Encrypt(data.OrganizationName);

data.OrganizationID = DESHelper.Encrypt(data.OrganizationID);

data.AccessionNumber = DESHelper.Encrypt(data.AccessionNumber);

var url = ConfigDefine.IDCASUrl;

//var url = ConfigDefine.Url;

//var idcasurl = ConfigDefine.IDCASUrl;

if (data.HasResult.HasValue && data.HasResult.Value)

{

data.RepetorViewUrl = CommonUtil.TransLocalhostForClient(data.RepetorViewUrl, url);

}

if (data.HasImage.HasValue && data.HasImage.Value)

{

data.ImageViewUrl = CommonUtil.TransLocalhostForClient(data.ImageViewUrl, url);

}

if (data.HasFilm.HasValue && data.HasFilm.Value)

{

data.FilmViewUrl = CommonUtil.TransLocalhostForClient(data.FilmViewUrl, url);

}

}

else

{

modelResult.code = ResultCodeEnum.Fail;

modelResult.msg = "未检索到检查记录";

}

老简的意思就是放这里了，能在云归档的wcf里面处理掉，就不要放到能力开放平台。

要不加一个state，我调的时候，置为1，然后在bll层去判断，然后我能力开放平台调用的时候，直接入参的时候，state=1，传过来调用云归档的wcf。

9.

把结果集都挪到契约层

dto

枚举：

namespace eWorld.Core.Enums

{

/// <summary>

/// 接口返回状态值

/// </summary>

public enum ReturnInfoEnum

{

base：

namespace eWorld.WebAPI.Models

{

/// <summary>

/// 接口返回基础参数

/// </summary>

public class BaseReturnResult

{

result：

namespace eWorld.WebAPI.Models

{

/// <summary>

/// 基础Model返回模型

/// </summary>

/// <typeparam name="T"></typeparam>

public class ModelReturnResult<T> : BaseReturnResult

{

/// <summary>

/// 结果模型

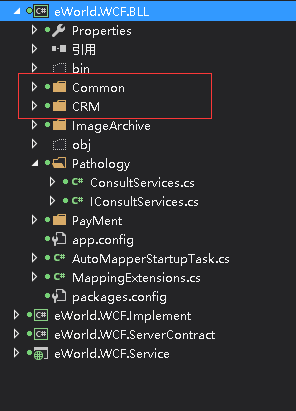
/// </summary>

public T data { get; set; }

}

}

这两个不用改：



最终要去掉这两个

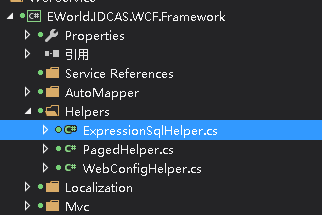
10.

ModelReturnResult

ModelReturnResult<model>

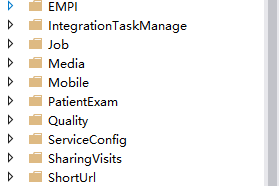
ModelReturnResult<list>

ModelReturnResult<pagelist>



PageReturnResult

11.



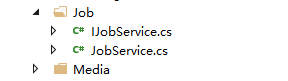
ReturnInfoEnum

法学这边的分页还没有传上来，所以其他都先改掉。

DataResult、ListResult和PageResult继承于BaseResult

70001

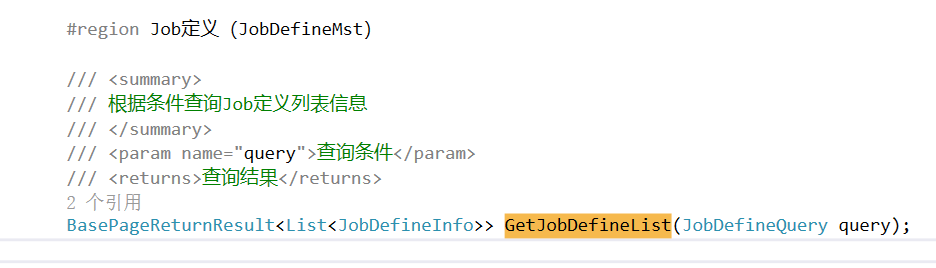
job可以最后去改



集成任务Service改造

手机端用户查询服务改造

到这个



集成任务服务改造一部分

12.

分页改造

var result = new BasePageReturnResult<List<JobTriggerDataMapInfo>>();

// pageResult = querySql.Project().To<JobTriggerDataMapInfo>().ToPageList(query.PageIndex, query.PageSize, query.Sort, query.Order);

querySql = ExpressionSqlHelper.ExecuteSort(querySql, query.Sort, query.Order);

PagedList<JobTriggerDataMapMst> page = new PagedList<JobTriggerDataMapMst>(querySql, query.PageIndex, query.PageSize);

Mapper.CreateMap<JobTriggerDataMapMst, JobTriggerDataMapInfo>();

List<JobTriggerDataMapInfo> sPurpostList = Mapper.Map<List<JobTriggerDataMapMst>, List<JobTriggerDataMapInfo>>(page);

result.data = sPurpostList;

result.page = new PageInfo()

{

HasNextPage = page.PageIndex + 1 < page.TotalPages,

HasPreviousPage = page.PageIndex > 0,

PageIndex = page.PageIndex,

PageSize = page.PageSize,

TotalCount = page.TotalCount,

TotalPages = page.TotalPages

};

return result;

}

catch (Exception ex)

{

\_log.Error(ex.Message, ex);

result.code = ReturnInfoEnum.ServiceBusy;

result.msg = "系统繁忙，请稍后再试";

return result;

}

普通的返回：

result.code = 70001;

result.msg = "系统繁忙，请稍后再试";

return result;

带泛型T model 的返回

result.code = 0;

result.msg = "成功";

result.data = jobServerInfo;

list返回

result.code = 0;

result.msg = "成功";

result.data = resultList;

return result;

13.

数据存储策略服务修改

14.

采集服务的思维导图

校验，后台服务，每天同步了多少，成功了多少，失败了多少，失败原因。

15.

// begin

//Mapper.CreateMap<ObservationRequest, PatientObservationRequestDTO>();

//Mapper.CreateMap<PatientIndex, PatientExamIndexDTO>();

//Mapper.CreateMap<Visit, PatientExamVisitDTO>();

//Mapper.CreateMap<ObservationResult, PatientObservationResultDTO>();

//var mark = new short[] { 1111, 1144, 1141, 1114 }; // 不需要返回采集列表的采集标识

//var observationRequestSql = from a in \_observationRequestRepository.Table

// join p in \_patientIndexRepository.Table on

// new {patientId = a.PatientID, pid = a.PIDAssigningAuthority}

// equals new {patientId = p.PatientID, pid = p.PIDAssigningAuthority}

// join v in \_visitRepository.Table on a.VisitUID equals v.VisitUID

// join o in \_observationResultRepository.Table on a.ObservationUID equals o.ObservationUID

// where

// a.DeleteFlag == false && (!mark.Contains(a.CollectionMark.Value) || !a.CollectionMark.HasValue)

// where v.DeleteFlag == false

// where o.DeleteFlag == false

// select new CloudExamListDTO

// {

// ObservationRequest= Mapper.Map<ObservationRequest, PatientObservationRequestDTO>(a),

// PatientIndex= Mapper.Map<PatientIndex, PatientExamIndexDTO>(p),

// PatientVisit = Mapper.Map<Visit, PatientExamVisitDTO>(v),

// ObservationResultList =

// };

Mapper.CreateMap<ObservationRequest, PatientObservationRequestDTO>();

Mapper.CreateMap<PatientIndex, PatientExamIndexDTO>();

Mapper.CreateMap<Visit, PatientExamVisitDTO>();

Mapper.CreateMap<ObservationResult, PatientObservationResultDTO>();

var mark = new short[] { 1111, 1144, 1141, 1114 }; // 不需要返回采集列表的采集标识

var observationRequestSql = from a in \_observationRequestRepository.Table

join p in \_patientIndexRepository.Table on

new { patientId = a.PatientID, pid = a.PIDAssigningAuthority }

equals new { patientId = p.PatientID, pid = p.PIDAssigningAuthority }

join v in \_visitRepository.Table on a.VisitUID equals v.VisitUID

//join o in \_observationResultRepository.Table on a.ObservationUID equals o.ObservationUID

where

a.DeleteFlag == false && (!mark.Contains(a.CollectionMark.Value) || !a.CollectionMark.HasValue)

where v.DeleteFlag == false

//where o.DeleteFlag == false

select new

{

ObservationRequest = a,

PatientIndex = p,

PatientVisit = v

};

//select new CloudExamListDTO

// {

// ObservationRequest = Mapper.Map<ObservationRequest, PatientObservationRequestDTO>(a),

// PatientIndex = Mapper.Map<PatientIndex, PatientExamIndexDTO>(p),

// PatientVisit = Mapper.Map<Visit, PatientExamVisitDTO>(v)

// };

//var query = from ccgm in \_customerCircleGroupMemberRepository.Table

// join c in \_customerRepository.Table on ccgm.FriendCustomerGuid equals c.CustomerGuid

// join dm in \_doctorMemberRepository.Table on ccgm.FriendCustomerGuid equals dm.CustomerGuid

// where param.GroupId.Contains(ccgm.GroupId.Value)

// select new AddressBookModel

// {

// FriendCustomerGuid = ccgm.FriendCustomerGuid,

// HeadPicGuid = c.HeadPicGuid,

// PeerId = c.IMPeerId,

// CustomerName = c.CustomerName,

// HospitalName = dm.HospitalName,

// Initials = c.NameFirstLetter,

// //GroupId=ccgm.GroupId

// };

if (query.ObservationDate.HasValue)

{

observationRequestSql =

observationRequestSql.Where(

a => a.ObservationRequest.ObservationDate >= query.ObservationDate.Value);

}

if (!string.IsNullOrWhiteSpace(query.OrganizationID))

{

query.OrganizationID = query.OrganizationID.TrimEnd(',');

var organizationIDList = query.OrganizationID.Split(',');

if (organizationIDList.Length == 1)

{

observationRequestSql =

observationRequestSql.Where(p => p.ObservationRequest.OrganizationID == query.OrganizationID);

}

else

{

observationRequestSql =

observationRequestSql.Where(

p => organizationIDList.Contains(p.ObservationRequest.OrganizationID));

}

}

if (!string.IsNullOrWhiteSpace(query.ServiceSectID))

{

var examTypeList = new List<string>();

query.ServiceSectID = query.ServiceSectID.TrimEnd(',');

var serviceSectIDList = query.ServiceSectID.Split(',');

var examTypeSql = from a in \_dataSourceSetupRepository.Table

select a;

if (serviceSectIDList.Length == 1)

{

examTypeSql = examTypeSql.Where(p => p.DataSource == query.ServiceSectID);

}

else

{

examTypeSql = examTypeSql.Where(p => serviceSectIDList.Contains(p.DataSource));

}

if (examTypeSql.Any())

{

foreach (var item in examTypeSql.ToList())

{

examTypeList.Add(item.ExamineType);

}

}

if (examTypeList.Count == 1)

{

var examtype = examTypeList[0];

observationRequestSql =

observationRequestSql.Where(p => p.ObservationRequest.ServiceSectID == examtype);

}

else if (examTypeList.Count > 1)

{

observationRequestSql =

observationRequestSql.Where(p => examTypeList.Contains(p.ObservationRequest.ServiceSectID));

}

}

if (!query.RowCount.HasValue)

{

query.RowCount = 50;

}

observationRequestSql =

observationRequestSql.OrderByDescending(a => a.ObservationRequest.ObservationDate.Value);

observationRequestSql = observationRequestSql.Take(query.RowCount.Value);

Mapper.CreateMap<ObservationRequest, PatientObservationRequestDTO>();

// var list = observationRequestSql.Project().To<PatientObservationRequestDTO>().ToList();

var list = observationRequestSql.ToList();

if (list.Count > 0)

{

foreach (var item in list)

{

if (!item.ObservationRequest.CollectionMark.HasValue)

{

item.ObservationRequest.CollectionMark = 1000;

}

{

model = new CloudExamListDTO

{

ObservationRequest = Mapper.Map<ObservationRequest,

PatientObservationRequestDTO>(item.ObservationRequest),

PatientIndex = Mapper.Map<PatientIndex,

PatientExamIndexDTO>(item.PatientIndex),

PatientVisit = Mapper.Map<Visit,

PatientExamVisitDTO>(item.PatientVisit),

ObservationResultList =

GetPatientExamObservationRequestList(item.ObservationRequest.ObservationUID)

};

resultList.Add(model);

}

}

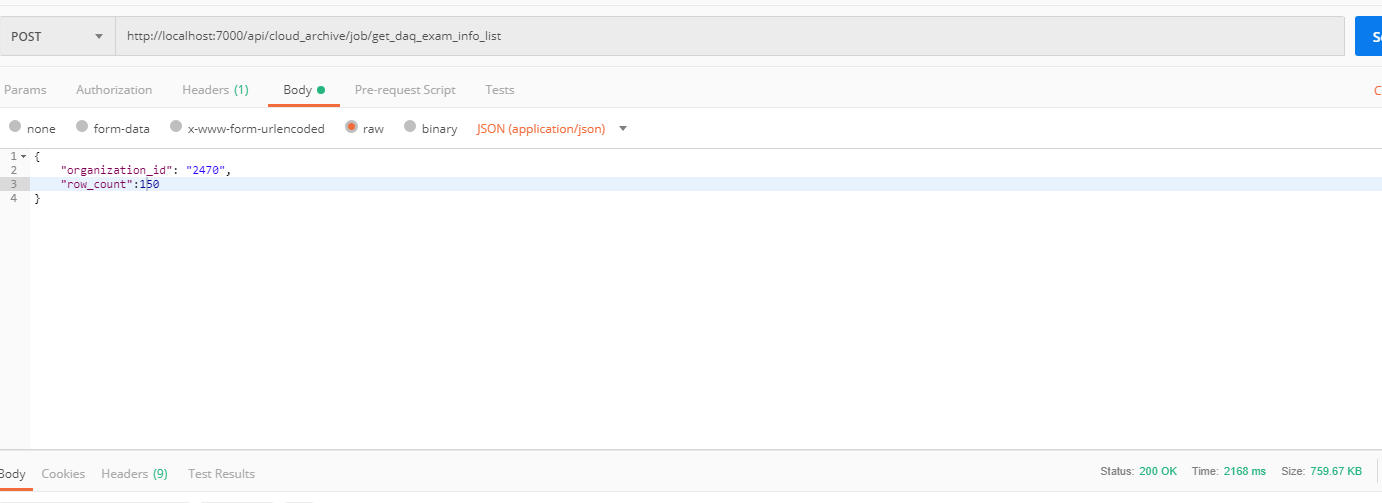
}

// end

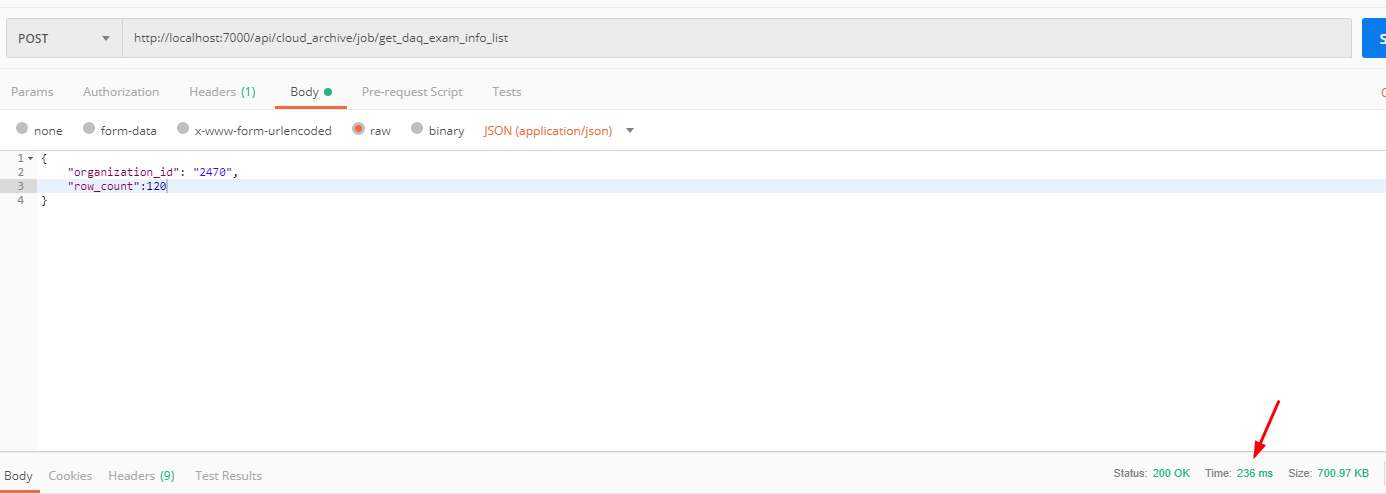
16.

150

原来 2168



120 2秒左右



换成连表以后，

236毫秒就出来了

不一起查出来，先把病人索引，观察，观察结果，三个连表出来，再最后for循环处理观察结果，这样就七百多毫秒了，所以用第二种一起查出来最好。

733 ms

三种代码我都保存下：

/// <summary>

/// 获取影像云采集列表

/// </summary>

/// <param name="query">查询条件</param>

/// <returns>影像云采集列表</returns>

public ListResult<CloudExamListDTO> GetCloudExamList(GetCloudExamListQuery query)

{

List<CloudExamListDTO> resultList = new List<CloudExamListDTO>();

CloudExamListDTO model = new CloudExamListDTO();

Stopwatch sw = null;

var result = new ListResult<CloudExamListDTO>() { code = (int)ReturnInfoEnum.Failed, msg = "Failed" };

try

{

if (\_logDebug)

{

sw = new Stopwatch();

sw.Start();

\_log.Debug("收到GetPatientExamList获取云到云采集列表方法调用，参数：" + JsonConvert.SerializeObject(query));

}

// var observationRequestSql = from a in \_observationRequestRepository.Table

// where a.DeleteFlag == false && ((a.CollectionMark.Value != 1111 && a.CollectionMark != 1144) || !a.CollectionMark.HasValue)

// select a;

//之前

//var mark = new short[] { 1111, 1144, 1141, 1114 }; // 不需要返回采集列表的采集标识

//var observationRequestSql = from a in \_observationRequestRepository.Table

// where a.DeleteFlag == false && (!mark.Contains(a.CollectionMark.Value) || !a.CollectionMark.HasValue)

// select a;

//if (query.ObservationDate.HasValue)

//{

// observationRequestSql = observationRequestSql.Where(a => a.ObservationDate >= query.ObservationDate.Value);

//}

//if (!string.IsNullOrWhiteSpace(query.OrganizationID))

//{

// query.OrganizationID = query.OrganizationID.TrimEnd(',');

// var organizationIDList = query.OrganizationID.Split(',');

// if (organizationIDList.Length == 1)

// {

// observationRequestSql = observationRequestSql.Where(p => p.OrganizationID == query.OrganizationID);

// }

// else

// {

// observationRequestSql = observationRequestSql.Where(p => organizationIDList.Contains(p.OrganizationID));

// }

//}

//if (!string.IsNullOrWhiteSpace(query.ServiceSectID))

//{

// var examTypeList = new List<string>();

// query.ServiceSectID = query.ServiceSectID.TrimEnd(',');

// var serviceSectIDList = query.ServiceSectID.Split(',');

// var examTypeSql = from a in \_dataSourceSetupRepository.Table

// select a;

// if (serviceSectIDList.Length == 1)

// {

// examTypeSql = examTypeSql.Where(p => p.DataSource == query.ServiceSectID);

// }

// else

// {

// examTypeSql = examTypeSql.Where(p => serviceSectIDList.Contains(p.DataSource));

// }

// if (examTypeSql.Any())

// {

// foreach (var item in examTypeSql.ToList())

// {

// examTypeList.Add(item.ExamineType);

// }

// }

// if (examTypeList.Count == 1)

// {

// var examtype = examTypeList[0];

// observationRequestSql = observationRequestSql.Where(p => p.ServiceSectID == examtype);

// }

// else if (examTypeList.Count > 1)

// {

// observationRequestSql = observationRequestSql.Where(p => examTypeList.Contains(p.ServiceSectID));

// }

//}

//if (!query.RowCount.HasValue)

//{

// query.RowCount = 50;

//}

//observationRequestSql = observationRequestSql.OrderByDescending(a => a.ObservationDate.Value);

//observationRequestSql = observationRequestSql.Take(query.RowCount.Value);

//Mapper.CreateMap<ObservationRequest, PatientObservationRequestDTO>();

//var list = observationRequestSql.Project().To<PatientObservationRequestDTO>().ToList();

//if (list.Count > 0)

//{

// foreach (var item in list)

// {

// if (!item.CollectionMark.HasValue)

// {

// item.CollectionMark = 1000;

// }

// model = new CloudExamListDTO

// {

// ObservationRequest = item,

// PatientIndex = GetPatientExamIndexDTO(item.PatientID, item.PIDAssigningAuthority),

// PatientVisit = GetPatientExamVisitDTO(item.VisitUID),

// ObservationResultList = GetPatientExamObservationRequestList(item.ObservationUID)

// };

// resultList.Add(model);

// }

//}

// begin

//Mapper.CreateMap<ObservationRequest, PatientObservationRequestDTO>();

//Mapper.CreateMap<PatientIndex, PatientExamIndexDTO>();

//Mapper.CreateMap<Visit, PatientExamVisitDTO>();

//Mapper.CreateMap<ObservationResult, PatientObservationResultDTO>();

//var mark = new short[] { 1111, 1144, 1141, 1114 }; // 不需要返回采集列表的采集标识

//var observationRequestSql = from a in \_observationRequestRepository.Table

// join p in \_patientIndexRepository.Table on

// new { patientId = a.PatientID, pid = a.PIDAssigningAuthority }

// equals new { patientId = p.PatientID, pid = p.PIDAssigningAuthority }

// join v in \_visitRepository.Table on a.VisitUID equals v.VisitUID

// //join o in \_observationResultRepository.Table on a.ObservationUID equals o.ObservationUID

// where

// a.DeleteFlag == false && (!mark.Contains(a.CollectionMark.Value) || !a.CollectionMark.HasValue)

// where v.DeleteFlag == false

// //where o.DeleteFlag == false

// select new

// {

// ObservationRequest = a,

// PatientIndex = p,

// PatientVisit = v,

// ObservationResultList = \_observationResultRepository.Table.Where(o => o.ObservationUID == a.ObservationUID && o.DeleteFlag == false)/\*.ToList()\*/

// };

//if (query.ObservationDate.HasValue)

//{

// observationRequestSql =

// observationRequestSql.Where(

// a => a.ObservationRequest.ObservationDate >= query.ObservationDate.Value);

//}

//if (!string.IsNullOrWhiteSpace(query.OrganizationID))

//{

// query.OrganizationID = query.OrganizationID.TrimEnd(',');

// var organizationIDList = query.OrganizationID.Split(',');

// if (organizationIDList.Length == 1)

// {

// observationRequestSql =

// observationRequestSql.Where(p => p.ObservationRequest.OrganizationID == query.OrganizationID);

// }

// else

// {

// observationRequestSql =

// observationRequestSql.Where(

// p => organizationIDList.Contains(p.ObservationRequest.OrganizationID));

// }

//}

//if (!string.IsNullOrWhiteSpace(query.ServiceSectID))

//{

// var examTypeList = new List<string>();

// query.ServiceSectID = query.ServiceSectID.TrimEnd(',');

// var serviceSectIDList = query.ServiceSectID.Split(',');

// var examTypeSql = from a in \_dataSourceSetupRepository.Table

// select a;

// if (serviceSectIDList.Length == 1)

// {

// examTypeSql = examTypeSql.Where(p => p.DataSource == query.ServiceSectID);

// }

// else

// {

// examTypeSql = examTypeSql.Where(p => serviceSectIDList.Contains(p.DataSource));

// }

// if (examTypeSql.Any())

// {

// foreach (var item in examTypeSql.ToList())

// {

// examTypeList.Add(item.ExamineType);

// }

// }

// if (examTypeList.Count == 1)

// {

// var examtype = examTypeList[0];

// observationRequestSql =

// observationRequestSql.Where(p => p.ObservationRequest.ServiceSectID == examtype);

// }

// else if (examTypeList.Count > 1)

// {

// observationRequestSql =

// observationRequestSql.Where(p => examTypeList.Contains(p.ObservationRequest.ServiceSectID));

// }

//}

//if (!query.RowCount.HasValue)

//{

// query.RowCount = 50;

//}

//observationRequestSql =

// observationRequestSql.OrderByDescending(a => a.ObservationRequest.ObservationDate.Value);

//observationRequestSql = observationRequestSql.Take(query.RowCount.Value);

//// var list = observationRequestSql.Project().To<PatientObservationRequestDTO>().ToList();

//var list = observationRequestSql.ToList();

//if (list.Count > 0)

//{

// foreach (var item in list)

// {

// if (!item.ObservationRequest.CollectionMark.HasValue)

// {

// item.ObservationRequest.CollectionMark = 1000;

// }

// {

// if (item.PatientVisit != null)

// {

// var ageAndUnit = CommonUtil.AgeUnitFormat(item.PatientVisit.Age ?? 0, item.PatientVisit.AgeUnit);

// item.PatientVisit.Age = ageAndUnit.Item1;

// item.PatientVisit.AgeUnit = ageAndUnit.Item2;

// }

// model = new CloudExamListDTO

// {

// ObservationRequest = Mapper.Map<ObservationRequest,

// PatientObservationRequestDTO>(item.ObservationRequest),

// PatientIndex = Mapper.Map<PatientIndex,

// PatientExamIndexDTO>(item.PatientIndex),

// PatientVisit = Mapper.Map<Visit,

// PatientExamVisitDTO>(item.PatientVisit),

// ObservationResultList = Mapper.Map<List<ObservationResult>, List<PatientObservationResultDTO>>(item.ObservationResultList.ToList())

// };

// resultList.Add(model);

// }

// }

//}

// end

//2

Mapper.CreateMap<ObservationRequest, PatientObservationRequestDTO>();

Mapper.CreateMap<PatientIndex, PatientExamIndexDTO>();

Mapper.CreateMap<Visit, PatientExamVisitDTO>();

Mapper.CreateMap<ObservationResult, PatientObservationResultDTO>();

var mark = new short[] { 1111, 1144, 1141, 1114 }; // 不需要返回采集列表的采集标识

var observationRequestSql = from a in \_observationRequestRepository.Table

join p in \_patientIndexRepository.Table on

new { patientId = a.PatientID, pid = a.PIDAssigningAuthority }

equals new { patientId = p.PatientID, pid = p.PIDAssigningAuthority }

join v in \_visitRepository.Table on a.VisitUID equals v.VisitUID

//join o in \_observationResultRepository.Table on a.ObservationUID equals o.ObservationUID

where

a.DeleteFlag == false && (!mark.Contains(a.CollectionMark.Value) || !a.CollectionMark.HasValue)

where v.DeleteFlag == false

//where o.DeleteFlag == false

select new

{

ObservationRequest = a,

PatientIndex = p,

PatientVisit = v

};

if (query.ObservationDate.HasValue)

{

observationRequestSql =

observationRequestSql.Where(

a => a.ObservationRequest.ObservationDate >= query.ObservationDate.Value);

}

if (!string.IsNullOrWhiteSpace(query.OrganizationID))

{

query.OrganizationID = query.OrganizationID.TrimEnd(',');

var organizationIDList = query.OrganizationID.Split(',');

if (organizationIDList.Length == 1)

{

observationRequestSql =

observationRequestSql.Where(p => p.ObservationRequest.OrganizationID == query.OrganizationID);

}

else

{

observationRequestSql =

observationRequestSql.Where(

p => organizationIDList.Contains(p.ObservationRequest.OrganizationID));

}

}

if (!string.IsNullOrWhiteSpace(query.ServiceSectID))

{

var examTypeList = new List<string>();

query.ServiceSectID = query.ServiceSectID.TrimEnd(',');

var serviceSectIDList = query.ServiceSectID.Split(',');

var examTypeSql = from a in \_dataSourceSetupRepository.Table

select a;

if (serviceSectIDList.Length == 1)

{

examTypeSql = examTypeSql.Where(p => p.DataSource == query.ServiceSectID);

}

else

{

examTypeSql = examTypeSql.Where(p => serviceSectIDList.Contains(p.DataSource));

}

if (examTypeSql.Any())

{

foreach (var item in examTypeSql.ToList())

{

examTypeList.Add(item.ExamineType);

}

}

if (examTypeList.Count == 1)

{

var examtype = examTypeList[0];

observationRequestSql =

observationRequestSql.Where(p => p.ObservationRequest.ServiceSectID == examtype);

}

else if (examTypeList.Count > 1)

{

observationRequestSql =

observationRequestSql.Where(p => examTypeList.Contains(p.ObservationRequest.ServiceSectID));

}

}

if (!query.RowCount.HasValue)

{

query.RowCount = 50;

}

observationRequestSql =

observationRequestSql.OrderByDescending(a => a.ObservationRequest.ObservationDate.Value);

observationRequestSql = observationRequestSql.Take(query.RowCount.Value);

//Mapper.CreateMap<ObservationRequest, PatientObservationRequestDTO>();

// var list = observationRequestSql.Project().To<PatientObservationRequestDTO>().ToList();

var list = observationRequestSql.ToList();

if (list.Count > 0)

{

foreach (var item in list)

{

if (!item.ObservationRequest.CollectionMark.HasValue)

{

item.ObservationRequest.CollectionMark = 1000;

}

if (item.PatientVisit != null)

{

var ageAndUnit = CommonUtil.AgeUnitFormat(item.PatientVisit.Age ?? 0, item.PatientVisit.AgeUnit);

item.PatientVisit.Age = ageAndUnit.Item1;

item.PatientVisit.AgeUnit = ageAndUnit.Item2;

}

{

model = new CloudExamListDTO

{

ObservationRequest = Mapper.Map<ObservationRequest,

PatientObservationRequestDTO>(item.ObservationRequest),

PatientIndex = Mapper.Map<PatientIndex,

PatientExamIndexDTO>(item.PatientIndex),

PatientVisit = Mapper.Map<Visit,

PatientExamVisitDTO>(item.PatientVisit),

ObservationResultList =

GetPatientExamObservationRequestList(item.ObservationRequest.ObservationUID)

};

resultList.Add(model);

}

}

}

//2

result.code = (int)ReturnInfoEnum.Success;

result.msg = "OK";

result.data = resultList;

return result;

17.

云到云获取检查列表，最终的sql语句：

SELECT

`Project2`.`C1`,

`Project2`.`ObservationUID`,

`Project2`.`PatientID`,

`Project2`.`PIDAssigningAuthority`,

`Project2`.`PatientMasterID`,

`Project2`.`PatientClass`,

`Project2`.`VisitUID`,

`Project2`.`OrderUID`,

`Project2`.`OrganizationID`,

`Project2`.`OrganizationName`,

`Project2`.`SourceOrganizationID`,

`Project2`.`SourceOrganizationName`,

`Project2`.`ClinicInfoType`,

`Project2`.`PlacerOrderNO`,

`Project2`.`PlacerAssigningAuthority`,

`Project2`.`PlacerOrderDetailNO`,

`Project2`.`FillerOrderNO`,

`Project2`.`FillerAssigningAuthority`,

`Project2`.`FillerPatientID`,

`Project2`.`AccessionNumber`,

`Project2`.`ServiceID`,

`Project2`.`ServiceCodeScheme`,

`Project2`.`ServiceText`,

`Project2`.`ServiceIDInsur`,

`Project2`.`ServiceSectID`,

`Project2`.`ProcedureID`,

`Project2`.`ProcedureName`,

`Project2`.`ProviderID`,

`Project2`.`ProviderName`,

`Project2`.`ProviderPhone`,

`Project2`.`RequestDeptID`,

`Project2`.`RequestDeptName`,

`Project2`.`RequestOrgID`,

`Project2`.`RequestOrgName`,

`Project2`.`RequestedDate`,

`Project2`.`Reason`,

`Project2`.`Attention`,

`Project2`.`Symptom`,

`Project2`.`AdverseReaction`,

`Project2`.`ClinicDiagnosis`,

`Project2`.`RelevantClinicalInfo`,

`Project2`.`FastingFlag`,

`Project2`.`TransportationMode`,

`Project2`.`SpecimenID`,

`Project2`.`SpecimenName`,

`Project2`.`SpecimenType`,

`Project2`.`SpecimenSource`,

`Project2`.`CollectorID`,

`Project2`.`CollectorName`,

`Project2`.`CollectionDept`,

`Project2`.`CollectionMethod`,

`Project2`.`CollectionVolume`,

`Project2`.`SpecimenReceivedDate`,

`Project2`.`ScheduledDate`,

`Project2`.`ScheduledDateEnd`,

`Project2`.`RegTime`,

`Project2`.`RegisterID`,

`Project2`.`RegisterName`,

`Project2`.`ObservationDeptID`,

`Project2`.`ObservationDeptName`,

`Project2`.`ObservationDate`,

`Project2`.`ObservationEndDate`,

`Project2`.`ObservationLocation`,

`Project2`.`ObservationEquipmentID`,

`Project2`.`ObservationEquipment`,

`Project2`.`EquipmentModel`,

`Project2`.`ObservationMethod`,

`Project2`.`StudyInstanceUID`,

`Project2`.`TechnicianID`,

`Project2`.`TechnicianName`,

`Project2`.`ResultAssistantID`,

`Project2`.`ResultAssistantName`,

`Project2`.`ResultAssistantPhone`,

`Project2`.`ResultPrincipalID`,

`Project2`.`ResultPrincipalName`,

`Project2`.`ResultReviseID`,

`Project2`.`ResultReviseName`,

`Project2`.`PreliminaryDate`,

`Project2`.`AuditDate`,

`Project2`.`ReviseDate`,

`Project2`.`ResultDate`,

`Project2`.`ResultOrganizationID`,

`Project2`.`ResultServiceCenterUID`,

`Project2`.`ResultStatus`,

`Project2`.`ResultStatusCode`,

`Project2`.`ResultPrintCount`,

`Project2`.`ResultPrintTime`,

`Project2`.`AbnormalFlags`,

`Project2`.`CriticalValue`,

`Project2`.`InfectionName`,

`Project2`.`PrivacyLevel`,

`Project2`.`PrivacyLevelExt`,

`Project2`.`Charges`,

`Project2`.`Payments`,

`Project2`.`PaymentsFlag`,

`Project2`.`FilmCount`,

`Project2`.`FilmNeed`,

`Project2`.`HasImage`,

`Project2`.`ImageLocation`,

`Project2`.`ConsultStatus`,

`Project2`.`ConsultRequestDate`,

`Project2`.`ConsultEndDate`,

`Project2`.`ArchiveDate`,

`Project2`.`LastUpdateDate`,

`Project2`.`DataSource`,

`Project2`.`LockFlag`,

`Project2`.`LockUserUID`,

`Project2`.`LockReason`,

`Project2`.`InWritingUserUID`,

`Project2`.`MessageCount`,

`Project2`.`UnProcessWorkflowCount`,

`Project2`.`PushState`,

`Project2`.`DeleteFlag`,

`Project2`.`RowTimestamp`,

`Project2`.`DiskSpace`,

`Project2`.`IsSummary`,

`Project2`.`IsRepeatExamSum`,

`Project2`.`IsDiseaseAnalysisSum`,

`Project2`.`CollectionMark`,

`Project2`.`PatientID1`,

`Project2`.`PIDAssigningAuthority1`,

`Project2`.`IsMPI`,

`Project2`.`PatientMasterID1`,

`Project2`.`Password`,

`Project2`.`CreateDate`,

`Project2`.`CreateUserID`,

`Project2`.`CreateUserName`,

`Project2`.`CreateOrgnizationID`,

`Project2`.`Name`,

`Project2`.`NameSpell`,

`Project2`.`MotherName`,

`Project2`.`Sex`,

`Project2`.`BirthDate`,

`Project2`.`BirthPlace`,

`Project2`.`Nation`,

`Project2`.`Citizenship`,

`Project2`.`MaritalStatus`,

`Project2`.`IdentityType`,

`Project2`.`IdentityID`,

`Project2`.`IDCardNO`,

`Project2`.`HealthCardNO`,

`Project2`.`InsuranceType`,

`Project2`.`InsuranceID`,

`Project2`.`ContactPhoneNO`,

`Project2`.`HomePhoneNO`,

`Project2`.`BusinessPhoneNO`,

`Project2`.`Email`,

`Project2`.`AddressProvince`,

`Project2`.`AddressCity`,

`Project2`.`AddressDistrict`,

`Project2`.`AddressStreet`,

`Project2`.`AddressRoad`,

`Project2`.`AddressDetail`,

`Project2`.`Postalcode`,

`Project2`.`Occupation`,

`Project2`.`WorkUnit`,

`Project2`.`Language`,

`Project2`.`LastUpdateDate1`,

`Project2`.`InHospitalFlag`,

`Project2`.`Status`,

`Project2`.`RowTimestamp1`,

`Project2`.`VisitUID1`,

`Project2`.`PatientID2`,

`Project2`.`PIDAssigningAuthority2`,

`Project2`.`PatientMasterID2`,

`Project2`.`VisitID`,

`Project2`.`AlternateVisitID`,

`Project2`.`AssigningAuthority`,

`Project2`.`PatientClass1`,

`Project2`.`PatientType`,

`Project2`.`MedRecNO`,

`Project2`.`OutPatientNO`,

`Project2`.`InPatientNO`,

`Project2`.`CardType`,

`Project2`.`CardNO`,

`Project2`.`Age`,

`Project2`.`AgeUnit`,

`Project2`.`MaritalStatus1`,

`Project2`.`PregnancyFlag`,

`Project2`.`Occupation1`,

`Project2`.`OrganizationID1`,

`Project2`.`AdmitDate`,

`Project2`.`ReAmissionFlag`,

`Project2`.`AdmissionType`,

`Project2`.`AdmitPatCondition`,

`Project2`.`AdmitDeptID`,

`Project2`.`AdmitDeptName`,

`Project2`.`DeptID`,

`Project2`.`DeptName`,

`Project2`.`PointOfCare`,

`Project2`.`PointOfCareID`,

`Project2`.`Room`,

`Project2`.`Bed`,

`Project2`.`AdmittingDoctorID`,

`Project2`.`AdmittingDoctorName`,

`Project2`.`AttendingDoctorID`,

`Project2`.`AttendingDoctorName`,

`Project2`.`DirectorDoctorID`,

`Project2`.`DirectorDoctorName`,

`Project2`.`CurPatCondition`,

`Project2`.`NursingGrade`,

`Project2`.`DietType`,

`Project2`.`IsHasPacemaker`,

`Project2`.`PrimaryDiagnosis`,

`Project2`.`DischargeDate`,

`Project2`.`DischargeDisposition`,

`Project2`.`TotalCharges`,

`Project2`.`TotalPayments`,

`Project2`.`PaymentMode`,

`Project2`.`MedicalPaymentMode`,

`Project2`.`LastUpdateDate2`,

`Project2`.`DeleteFlag1`,

`Project2`.`RowTimestamp2`,

`Project2`.`C2`,

`Project2`.`ResultSeq`,

`Project2`.`ObservationUID1`,

`Project2`.`SetID`,

`Project2`.`ObservationID`,

`Project2`.`ObservationCodeScheme`,

`Project2`.`ObservationText`,

`Project2`.`SubID`,

`Project2`.`ValueTitle`,

`Project2`.`ValueType`,

`Project2`.`ValueText`,

`Project2`.`ValueCode`,

`Project2`.`ValueCodeSystem`,

`Project2`.`ValueUnits`,

`Project2`.`ResultStatus1`,

`Project2`.`ResultStatusCode1`,

`Project2`.`ReferencesRange`,

`Project2`.`AbnormalFlags1`,

`Project2`.`ObservationMethod1`,

`Project2`.`ObservationDate1`,

`Project2`.`PreliminaryDate1`,

`Project2`.`AuditDate1`,

`Project2`.`ResultPrincipalID1`,

`Project2`.`ResultPrincipalName1`,

`Project2`.`ResultAssistantID1`,

`Project2`.`ResultAssistantName1`,

`Project2`.`LowerLimit`,

`Project2`.`UpperLimit`,

`Project2`.`Memo`,

`Project2`.`ParentResultSeq`,

`Project2`.`ParentObservationID`,

`Project2`.`LastUpdateDate3`,

`Project2`.`DeleteFlag2`,

`Project2`.`RowTimestamp3`

FROM

(

SELECT

`Limit1`.`ObservationUID`,

`Limit1`.`PatientID`,

`Limit1`.`PIDAssigningAuthority`,

`Limit1`.`PatientMasterID`,

`Limit1`.`PatientClass`,

`Limit1`.`VisitUID`,

`Limit1`.`OrderUID`,

`Limit1`.`OrganizationID`,

`Limit1`.`OrganizationName`,

`Limit1`.`SourceOrganizationID`,

`Limit1`.`SourceOrganizationName`,

`Limit1`.`ClinicInfoType`,

`Limit1`.`PlacerOrderNO`,

`Limit1`.`PlacerAssigningAuthority`,

`Limit1`.`PlacerOrderDetailNO`,

`Limit1`.`FillerOrderNO`,

`Limit1`.`FillerAssigningAuthority`,

`Limit1`.`FillerPatientID`,

`Limit1`.`AccessionNumber`,

`Limit1`.`ServiceID`,

`Limit1`.`ServiceCodeScheme`,

`Limit1`.`ServiceText`,

`Limit1`.`ServiceIDInsur`,

`Limit1`.`ServiceSectID`,

`Limit1`.`ProcedureID`,

`Limit1`.`ProcedureName`,

`Limit1`.`ProviderID`,

`Limit1`.`ProviderName`,

`Limit1`.`ProviderPhone`,

`Limit1`.`RequestDeptID`,

`Limit1`.`RequestDeptName`,

`Limit1`.`RequestOrgID`,

`Limit1`.`RequestOrgName`,

`Limit1`.`RequestedDate`,

`Limit1`.`Reason`,

`Limit1`.`Attention`,

`Limit1`.`Symptom`,

`Limit1`.`AdverseReaction`,

`Limit1`.`ClinicDiagnosis`,

`Limit1`.`RelevantClinicalInfo`,

`Limit1`.`FastingFlag`,

`Limit1`.`TransportationMode`,

`Limit1`.`SpecimenID`,

`Limit1`.`SpecimenName`,

`Limit1`.`SpecimenType`,

`Limit1`.`SpecimenSource`,

`Limit1`.`CollectorID`,

`Limit1`.`CollectorName`,

`Limit1`.`CollectionDept`,

`Limit1`.`CollectionMethod`,

`Limit1`.`CollectionVolume`,

`Limit1`.`SpecimenReceivedDate`,

`Limit1`.`ScheduledDate`,

`Limit1`.`ScheduledDateEnd`,

`Limit1`.`RegTime`,

`Limit1`.`RegisterID`,

`Limit1`.`RegisterName`,

`Limit1`.`ObservationDeptID`,

`Limit1`.`ObservationDeptName`,

`Limit1`.`ObservationDate`,

`Limit1`.`ObservationEndDate`,

`Limit1`.`ObservationLocation`,

`Limit1`.`ObservationEquipmentID`,

`Limit1`.`ObservationEquipment`,

`Limit1`.`EquipmentModel`,

`Limit1`.`ObservationMethod`,

`Limit1`.`StudyInstanceUID`,

`Limit1`.`TechnicianID`,

`Limit1`.`TechnicianName`,

`Limit1`.`ResultAssistantID`,

`Limit1`.`ResultAssistantName`,

`Limit1`.`ResultAssistantPhone`,

`Limit1`.`ResultPrincipalID`,

`Limit1`.`ResultPrincipalName`,

`Limit1`.`ResultReviseID`,

`Limit1`.`ResultReviseName`,

`Limit1`.`PreliminaryDate`,

`Limit1`.`AuditDate`,

`Limit1`.`ReviseDate`,

`Limit1`.`ResultDate`,

`Limit1`.`ResultOrganizationID`,

`Limit1`.`ResultServiceCenterUID`,

`Limit1`.`ResultStatus`,

`Limit1`.`ResultStatusCode`,

`Limit1`.`ResultPrintCount`,

`Limit1`.`ResultPrintTime`,

`Limit1`.`AbnormalFlags`,

`Limit1`.`CriticalValue`,

`Limit1`.`InfectionName`,

`Limit1`.`PrivacyLevel`,

`Limit1`.`PrivacyLevelExt`,

`Limit1`.`Charges`,

`Limit1`.`Payments`,

`Limit1`.`PaymentsFlag`,

`Limit1`.`FilmCount`,

`Limit1`.`FilmNeed`,

`Limit1`.`HasImage`,

`Limit1`.`ImageLocation`,

`Limit1`.`ConsultStatus`,

`Limit1`.`ConsultRequestDate`,

`Limit1`.`ConsultEndDate`,

`Limit1`.`ArchiveDate`,

`Limit1`.`LastUpdateDate`,

`Limit1`.`DataSource`,

`Limit1`.`LockFlag`,

`Limit1`.`LockUserUID`,

`Limit1`.`LockReason`,

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`Extent4`.`ObservationMethod` AS `ObservationMethod1`,

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`Extent4`.`ResultPrincipalName` AS `ResultPrincipalName1`,

`Extent4`.`ResultAssistantID` AS `ResultAssistantID1`,

`Extent4`.`ResultAssistantName` AS `ResultAssistantName1`,

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`Extent4`.`UpperLimit`,

`Extent4`.`Memo`,

`Extent4`.`ParentResultSeq`,

`Extent4`.`ParentObservationID`,

`Extent4`.`LastUpdateDate` AS `LastUpdateDate3`,

`Extent4`.`DeleteFlag` AS `DeleteFlag2`,

`Extent4`.`RowTimestamp` AS `RowTimestamp3`,

CASE

WHEN (

`Extent4`.`ResultSeq` IS NULL

) THEN

(NULL)

ELSE

(1)

END AS `C2`

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`Extent3`.`OutPatientNO`,

`Extent3`.`InPatientNO`,

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FROM

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`Extent2`.`CreateOrgnizationID`,

`Extent2`.`Name`,

`Extent2`.`NameSpell`,

`Extent2`.`MotherName`,

`Extent2`.`Sex`,

`Extent2`.`BirthDate`,

`Extent2`.`BirthPlace`,

`Extent2`.`Nation`,

`Extent2`.`Citizenship`,

`Extent2`.`MaritalStatus`,

`Extent2`.`IdentityType`,

`Extent2`.`IdentityID`,

`Extent2`.`IDCardNO`,

`Extent2`.`HealthCardNO`,

`Extent2`.`InsuranceType`,

`Extent2`.`InsuranceID`,

`Extent2`.`ContactPhoneNO`,

`Extent2`.`HomePhoneNO`,

`Extent2`.`BusinessPhoneNO`,

`Extent2`.`Email`,

`Extent2`.`AddressProvince`,

`Extent2`.`AddressCity`,

`Extent2`.`AddressDistrict`,

`Extent2`.`AddressStreet`,

`Extent2`.`AddressRoad`,

`Extent2`.`AddressDetail`,

`Extent2`.`Postalcode`,

`Extent2`.`Occupation`,

`Extent2`.`WorkUnit`,

`Extent2`.`Language`,

`Extent2`.`LastUpdateDate` AS `LASTUPDATEDATE1`,

`Extent2`.`InHospitalFlag`,

`Extent2`.`Status`,

`Extent2`.`RowTimestamp` AS `ROWTIMESTAMP1`

FROM

`ObservationRequest` AS `Extent1`

INNER JOIN `PatientIndex` AS `Extent2` ON (

`Extent1`.`PatientID` = `Extent2`.`PatientID`

)

AND (

`Extent1`.`PIDAssigningAuthority` = `Extent2`.`PIDAssigningAuthority`

)

WHERE

(0 = `Extent1`.`DeleteFlag`)

AND (

(

`Extent1`.`CollectionMark` NOT IN (1111, 1144, 1141, 1114)

)

OR (

`Extent1`.`CollectionMark` IS NULL

)

)

) AS `Filter1`

INNER JOIN `Visit` AS `Extent3` ON `Filter1`.`VisitUID` = `Extent3`.`VisitUID`

WHERE

(0 = `Extent3`.`DeleteFlag`)

AND (

`Filter1`.`OrganizationID` = @p\_\_linq\_\_0

)

) AS `Project1`

ORDER BY

`Project1`.`ObservationDate` DESC

LIMIT 120

) AS `Limit1`

LEFT OUTER JOIN `ObservationResult` AS `Extent4` ON (

`Extent4`.`ObservationUID` = `Limit1`.`ObservationUID`

)

AND (0 = `Extent4`.`DeleteFlag`)

) AS `Project2`

ORDER BY

`Project2`.`ObservationDate` DESC,

`Project2`.`ObservationUID` ASC,

`Project2`.`PatientID1` ASC,

`Project2`.`PIDAssigningAuthority1` ASC,

`Project2`.`VisitUID1` ASC,

`Project2`.`C2` ASC

2）改成在sql中查询检查结果就ToList();

SELECT

`Project2`.`C1`,

`Project2`.`ObservationUID`,

`Project2`.`PatientID`,

`Project2`.`PIDAssigningAuthority`,

`Project2`.`PatientMasterID`,

`Project2`.`PatientClass`,

`Project2`.`VisitUID`,

`Project2`.`OrderUID`,

`Project2`.`OrganizationID`,

`Project2`.`OrganizationName`,

`Project2`.`SourceOrganizationID`,

`Project2`.`SourceOrganizationName`,

`Project2`.`ClinicInfoType`,

`Project2`.`PlacerOrderNO`,

`Project2`.`PlacerAssigningAuthority`,

`Project2`.`PlacerOrderDetailNO`,

`Project2`.`FillerOrderNO`,

`Project2`.`FillerAssigningAuthority`,

`Project2`.`FillerPatientID`,

`Project2`.`AccessionNumber`,

`Project2`.`ServiceID`,

`Project2`.`ServiceCodeScheme`,

`Project2`.`ServiceText`,

`Project2`.`ServiceIDInsur`,

`Project2`.`ServiceSectID`,

`Project2`.`ProcedureID`,

`Project2`.`ProcedureName`,

`Project2`.`ProviderID`,

`Project2`.`ProviderName`,

`Project2`.`ProviderPhone`,

`Project2`.`RequestDeptID`,

`Project2`.`RequestDeptName`,

`Project2`.`RequestOrgID`,

`Project2`.`RequestOrgName`,

`Project2`.`RequestedDate`,

`Project2`.`Reason`,

`Project2`.`Attention`,

`Project2`.`Symptom`,

`Project2`.`AdverseReaction`,

`Project2`.`ClinicDiagnosis`,

`Project2`.`RelevantClinicalInfo`,

`Project2`.`FastingFlag`,

`Project2`.`TransportationMode`,

`Project2`.`SpecimenID`,

`Project2`.`SpecimenName`,

`Project2`.`SpecimenType`,

`Project2`.`SpecimenSource`,

`Project2`.`CollectorID`,

`Project2`.`CollectorName`,

`Project2`.`CollectionDept`,

`Project2`.`CollectionMethod`,

`Project2`.`CollectionVolume`,

`Project2`.`SpecimenReceivedDate`,

`Project2`.`ScheduledDate`,

`Project2`.`ScheduledDateEnd`,

`Project2`.`RegTime`,

`Project2`.`RegisterID`,

`Project2`.`RegisterName`,

`Project2`.`ObservationDeptID`,

`Project2`.`ObservationDeptName`,

`Project2`.`ObservationDate`,

`Project2`.`ObservationEndDate`,

`Project2`.`ObservationLocation`,

`Project2`.`ObservationEquipmentID`,

`Project2`.`ObservationEquipment`,

`Project2`.`EquipmentModel`,

`Project2`.`ObservationMethod`,

`Project2`.`StudyInstanceUID`,

`Project2`.`TechnicianID`,

`Project2`.`TechnicianName`,

`Project2`.`ResultAssistantID`,

`Project2`.`ResultAssistantName`,

`Project2`.`ResultAssistantPhone`,

`Project2`.`ResultPrincipalID`,

`Project2`.`ResultPrincipalName`,

`Project2`.`ResultReviseID`,

`Project2`.`ResultReviseName`,

`Project2`.`PreliminaryDate`,

`Project2`.`AuditDate`,

`Project2`.`ReviseDate`,

`Project2`.`ResultDate`,

`Project2`.`ResultOrganizationID`,

`Project2`.`ResultServiceCenterUID`,

`Project2`.`ResultStatus`,

`Project2`.`ResultStatusCode`,

`Project2`.`ResultPrintCount`,

`Project2`.`ResultPrintTime`,

`Project2`.`AbnormalFlags`,

`Project2`.`CriticalValue`,

`Project2`.`InfectionName`,

`Project2`.`PrivacyLevel`,

`Project2`.`PrivacyLevelExt`,

`Project2`.`Charges`,

`Project2`.`Payments`,

`Project2`.`PaymentsFlag`,

`Project2`.`FilmCount`,

`Project2`.`FilmNeed`,

`Project2`.`HasImage`,

`Project2`.`ImageLocation`,

`Project2`.`ConsultStatus`,

`Project2`.`ConsultRequestDate`,

`Project2`.`ConsultEndDate`,

`Project2`.`ArchiveDate`,

`Project2`.`LastUpdateDate`,

`Project2`.`DataSource`,

`Project2`.`LockFlag`,

`Project2`.`LockUserUID`,

`Project2`.`LockReason`,

`Project2`.`InWritingUserUID`,

`Project2`.`MessageCount`,

`Project2`.`UnProcessWorkflowCount`,

`Project2`.`PushState`,

`Project2`.`DeleteFlag`,

`Project2`.`RowTimestamp`,

`Project2`.`DiskSpace`,

`Project2`.`IsSummary`,

`Project2`.`IsRepeatExamSum`,

`Project2`.`IsDiseaseAnalysisSum`,

`Project2`.`CollectionMark`,

`Project2`.`PatientID1`,

`Project2`.`PIDAssigningAuthority1`,

`Project2`.`IsMPI`,

`Project2`.`PatientMasterID1`,

`Project2`.`Password`,

`Project2`.`CreateDate`,

`Project2`.`CreateUserID`,

`Project2`.`CreateUserName`,

`Project2`.`CreateOrgnizationID`,

`Project2`.`Name`,

`Project2`.`NameSpell`,

`Project2`.`MotherName`,

`Project2`.`Sex`,

`Project2`.`BirthDate`,

`Project2`.`BirthPlace`,

`Project2`.`Nation`,

`Project2`.`Citizenship`,

`Project2`.`MaritalStatus`,

`Project2`.`IdentityType`,

`Project2`.`IdentityID`,

`Project2`.`IDCardNO`,

`Project2`.`HealthCardNO`,

`Project2`.`InsuranceType`,

`Project2`.`InsuranceID`,

`Project2`.`ContactPhoneNO`,

`Project2`.`HomePhoneNO`,

`Project2`.`BusinessPhoneNO`,

`Project2`.`Email`,

`Project2`.`AddressProvince`,

`Project2`.`AddressCity`,

`Project2`.`AddressDistrict`,

`Project2`.`AddressStreet`,

`Project2`.`AddressRoad`,

`Project2`.`AddressDetail`,

`Project2`.`Postalcode`,

`Project2`.`Occupation`,

`Project2`.`WorkUnit`,

`Project2`.`Language`,

`Project2`.`LastUpdateDate1`,

`Project2`.`InHospitalFlag`,

`Project2`.`Status`,

`Project2`.`RowTimestamp1`,

`Project2`.`VisitUID1`,

`Project2`.`PatientID2`,

`Project2`.`PIDAssigningAuthority2`,

`Project2`.`PatientMasterID2`,

`Project2`.`VisitID`,

`Project2`.`AlternateVisitID`,

`Project2`.`AssigningAuthority`,

`Project2`.`PatientClass1`,

`Project2`.`PatientType`,

`Project2`.`MedRecNO`,

`Project2`.`OutPatientNO`,

`Project2`.`InPatientNO`,

`Project2`.`CardType`,

`Project2`.`CardNO`,

`Project2`.`Age`,

`Project2`.`AgeUnit`,

`Project2`.`MaritalStatus1`,

`Project2`.`PregnancyFlag`,

`Project2`.`Occupation1`,

`Project2`.`OrganizationID1`,

`Project2`.`AdmitDate`,

`Project2`.`ReAmissionFlag`,

`Project2`.`AdmissionType`,

`Project2`.`AdmitPatCondition`,

`Project2`.`AdmitDeptID`,

`Project2`.`AdmitDeptName`,

`Project2`.`DeptID`,

`Project2`.`DeptName`,

`Project2`.`PointOfCare`,

`Project2`.`PointOfCareID`,

`Project2`.`Room`,

`Project2`.`Bed`,

`Project2`.`AdmittingDoctorID`,

`Project2`.`AdmittingDoctorName`,

`Project2`.`AttendingDoctorID`,

`Project2`.`AttendingDoctorName`,

`Project2`.`DirectorDoctorID`,

`Project2`.`DirectorDoctorName`,

`Project2`.`CurPatCondition`,

`Project2`.`NursingGrade`,

`Project2`.`DietType`,

`Project2`.`IsHasPacemaker`,

`Project2`.`PrimaryDiagnosis`,

`Project2`.`DischargeDate`,

`Project2`.`DischargeDisposition`,

`Project2`.`TotalCharges`,

`Project2`.`TotalPayments`,

`Project2`.`PaymentMode`,

`Project2`.`MedicalPaymentMode`,

`Project2`.`LastUpdateDate2`,

`Project2`.`DeleteFlag1`,

`Project2`.`RowTimestamp2`,

`Project2`.`C2`,

`Project2`.`ResultSeq`,

`Project2`.`ObservationUID1`,

`Project2`.`SetID`,

`Project2`.`ObservationID`,

`Project2`.`ObservationCodeScheme`,

`Project2`.`ObservationText`,

`Project2`.`SubID`,

`Project2`.`ValueTitle`,

`Project2`.`ValueType`,

`Project2`.`ValueText`,

`Project2`.`ValueCode`,

`Project2`.`ValueCodeSystem`,

`Project2`.`ValueUnits`,

`Project2`.`ResultStatus1`,

`Project2`.`ResultStatusCode1`,

`Project2`.`ReferencesRange`,

`Project2`.`AbnormalFlags1`,

`Project2`.`ObservationMethod1`,

`Project2`.`ObservationDate1`,

`Project2`.`PreliminaryDate1`,

`Project2`.`AuditDate1`,

`Project2`.`ResultPrincipalID1`,

`Project2`.`ResultPrincipalName1`,

`Project2`.`ResultAssistantID1`,

`Project2`.`ResultAssistantName1`,

`Project2`.`LowerLimit`,

`Project2`.`UpperLimit`,

`Project2`.`Memo`,

`Project2`.`ParentResultSeq`,

`Project2`.`ParentObservationID`,

`Project2`.`LastUpdateDate3`,

`Project2`.`DeleteFlag2`,

`Project2`.`RowTimestamp3`

FROM

(

SELECT

`Limit1`.`ObservationUID`,

`Limit1`.`PatientID`,

`Limit1`.`PIDAssigningAuthority`,

`Limit1`.`PatientMasterID`,

`Limit1`.`PatientClass`,

`Limit1`.`VisitUID`,

`Limit1`.`OrderUID`,

`Limit1`.`OrganizationID`,

`Limit1`.`OrganizationName`,

`Limit1`.`SourceOrganizationID`,

`Limit1`.`SourceOrganizationName`,

`Limit1`.`ClinicInfoType`,

`Limit1`.`PlacerOrderNO`,

`Limit1`.`PlacerAssigningAuthority`,

`Limit1`.`PlacerOrderDetailNO`,

`Limit1`.`FillerOrderNO`,

`Limit1`.`FillerAssigningAuthority`,

`Limit1`.`FillerPatientID`,

`Limit1`.`AccessionNumber`,

`Limit1`.`ServiceID`,

`Limit1`.`ServiceCodeScheme`,

`Limit1`.`ServiceText`,

`Limit1`.`ServiceIDInsur`,

`Limit1`.`ServiceSectID`,

`Limit1`.`ProcedureID`,

`Limit1`.`ProcedureName`,

`Limit1`.`ProviderID`,

`Limit1`.`ProviderName`,

`Limit1`.`ProviderPhone`,

`Limit1`.`RequestDeptID`,

`Limit1`.`RequestDeptName`,

`Limit1`.`RequestOrgID`,

`Limit1`.`RequestOrgName`,

`Limit1`.`RequestedDate`,

`Limit1`.`Reason`,

`Limit1`.`Attention`,

`Limit1`.`Symptom`,

`Limit1`.`AdverseReaction`,

`Limit1`.`ClinicDiagnosis`,

`Limit1`.`RelevantClinicalInfo`,

`Limit1`.`FastingFlag`,

`Limit1`.`TransportationMode`,

`Limit1`.`SpecimenID`,

`Limit1`.`SpecimenName`,

`Limit1`.`SpecimenType`,

`Limit1`.`SpecimenSource`,

`Limit1`.`CollectorID`,

`Limit1`.`CollectorName`,

`Limit1`.`CollectionDept`,

`Limit1`.`CollectionMethod`,

`Limit1`.`CollectionVolume`,

`Limit1`.`SpecimenReceivedDate`,

`Limit1`.`ScheduledDate`,

`Limit1`.`ScheduledDateEnd`,

`Limit1`.`RegTime`,

`Limit1`.`RegisterID`,

`Limit1`.`RegisterName`,

`Limit1`.`ObservationDeptID`,

`Limit1`.`ObservationDeptName`,

`Limit1`.`ObservationDate`,

`Limit1`.`ObservationEndDate`,

`Limit1`.`ObservationLocation`,

`Limit1`.`ObservationEquipmentID`,

`Limit1`.`ObservationEquipment`,

`Limit1`.`EquipmentModel`,

`Limit1`.`ObservationMethod`,

`Limit1`.`StudyInstanceUID`,

`Limit1`.`TechnicianID`,

`Limit1`.`TechnicianName`,

`Limit1`.`ResultAssistantID`,

`Limit1`.`ResultAssistantName`,

`Limit1`.`ResultAssistantPhone`,

`Limit1`.`ResultPrincipalID`,

`Limit1`.`ResultPrincipalName`,

`Limit1`.`ResultReviseID`,

`Limit1`.`ResultReviseName`,

`Limit1`.`PreliminaryDate`,

`Limit1`.`AuditDate`,

`Limit1`.`ReviseDate`,

`Limit1`.`ResultDate`,

`Limit1`.`ResultOrganizationID`,

`Limit1`.`ResultServiceCenterUID`,

`Limit1`.`ResultStatus`,

`Limit1`.`ResultStatusCode`,

`Limit1`.`ResultPrintCount`,

`Limit1`.`ResultPrintTime`,

`Limit1`.`AbnormalFlags`,

`Limit1`.`CriticalValue`,

`Limit1`.`InfectionName`,

`Limit1`.`PrivacyLevel`,

`Limit1`.`PrivacyLevelExt`,

`Limit1`.`Charges`,

`Limit1`.`Payments`,

`Limit1`.`PaymentsFlag`,

`Limit1`.`FilmCount`,

`Limit1`.`FilmNeed`,

`Limit1`.`HasImage`,

`Limit1`.`ImageLocation`,

`Limit1`.`ConsultStatus`,

`Limit1`.`ConsultRequestDate`,

`Limit1`.`ConsultEndDate`,

`Limit1`.`ArchiveDate`,

`Limit1`.`LastUpdateDate`,

`Limit1`.`DataSource`,

`Limit1`.`LockFlag`,

`Limit1`.`LockUserUID`,

`Limit1`.`LockReason`,

`Limit1`.`InWritingUserUID`,

`Limit1`.`MessageCount`,

`Limit1`.`UnProcessWorkflowCount`,

`Limit1`.`PushState`,

`Limit1`.`DeleteFlag`,

`Limit1`.`RowTimestamp`,

`Limit1`.`DiskSpace`,

`Limit1`.`IsSummary`,

`Limit1`.`IsRepeatExamSum`,

`Limit1`.`IsDiseaseAnalysisSum`,

`Limit1`.`CollectionMark`,

`Limit1`.`PatientID1`,

`Limit1`.`PIDAssigningAuthority1`,

`Limit1`.`IsMPI`,

`Limit1`.`PatientMasterID1`,

`Limit1`.`Password`,

`Limit1`.`CreateDate`,

`Limit1`.`CreateUserID`,

`Limit1`.`CreateUserName`,

`Limit1`.`CreateOrgnizationID`,

`Limit1`.`Name`,

`Limit1`.`NameSpell`,

`Limit1`.`MotherName`,

`Limit1`.`Sex`,

`Limit1`.`BirthDate`,

`Limit1`.`BirthPlace`,

`Limit1`.`Nation`,

`Limit1`.`Citizenship`,

`Limit1`.`MaritalStatus`,

`Limit1`.`IdentityType`,

`Limit1`.`IdentityID`,

`Limit1`.`IDCardNO`,

`Limit1`.`HealthCardNO`,

`Limit1`.`InsuranceType`,

`Limit1`.`InsuranceID`,

`Limit1`.`ContactPhoneNO`,

`Limit1`.`HomePhoneNO`,

`Limit1`.`BusinessPhoneNO`,

`Limit1`.`Email`,

`Limit1`.`AddressProvince`,

`Limit1`.`AddressCity`,

`Limit1`.`AddressDistrict`,

`Limit1`.`AddressStreet`,

`Limit1`.`AddressRoad`,

`Limit1`.`AddressDetail`,

`Limit1`.`Postalcode`,

`Limit1`.`Occupation`,

`Limit1`.`WorkUnit`,

`Limit1`.`Language`,

`Limit1`.`LastUpdateDate1`,

`Limit1`.`InHospitalFlag`,

`Limit1`.`Status`,

`Limit1`.`RowTimestamp1`,

`Limit1`.`VisitUID1`,

`Limit1`.`PatientID2`,

`Limit1`.`PIDAssigningAuthority2`,

`Limit1`.`PatientMasterID2`,

`Limit1`.`VisitID`,

`Limit1`.`AlternateVisitID`,

`Limit1`.`AssigningAuthority`,

`Limit1`.`PatientClass1`,

`Limit1`.`PatientType`,

`Limit1`.`MedRecNO`,

`Limit1`.`OutPatientNO`,

`Limit1`.`InPatientNO`,

`Limit1`.`CardType`,

`Limit1`.`CardNO`,

`Limit1`.`Age`,

`Limit1`.`AgeUnit`,

`Limit1`.`MaritalStatus1`,

`Limit1`.`PregnancyFlag`,

`Limit1`.`Occupation1`,

`Limit1`.`OrganizationID1`,

`Limit1`.`AdmitDate`,

`Limit1`.`ReAmissionFlag`,

`Limit1`.`AdmissionType`,

`Limit1`.`AdmitPatCondition`,

`Limit1`.`AdmitDeptID`,

`Limit1`.`AdmitDeptName`,

`Limit1`.`DeptID`,

`Limit1`.`DeptName`,

`Limit1`.`PointOfCare`,

`Limit1`.`PointOfCareID`,

`Limit1`.`Room`,

`Limit1`.`Bed`,

`Limit1`.`AdmittingDoctorID`,

`Limit1`.`AdmittingDoctorName`,

`Limit1`.`AttendingDoctorID`,

`Limit1`.`AttendingDoctorName`,

`Limit1`.`DirectorDoctorID`,

`Limit1`.`DirectorDoctorName`,

`Limit1`.`CurPatCondition`,

`Limit1`.`NursingGrade`,

`Limit1`.`DietType`,

`Limit1`.`IsHasPacemaker`,

`Limit1`.`PrimaryDiagnosis`,

`Limit1`.`DischargeDate`,

`Limit1`.`DischargeDisposition`,

`Limit1`.`TotalCharges`,

`Limit1`.`TotalPayments`,

`Limit1`.`PaymentMode`,

`Limit1`.`MedicalPaymentMode`,

`Limit1`.`LastUpdateDate2`,

`Limit1`.`DeleteFlag1`,

`Limit1`.`RowTimestamp2`,

`Limit1`.`C1`,

`Extent4`.`ResultSeq`,

`Extent4`.`ObservationUID` AS `ObservationUID1`,

`Extent4`.`SetID`,

`Extent4`.`ObservationID`,

`Extent4`.`ObservationCodeScheme`,

`Extent4`.`ObservationText`,

`Extent4`.`SubID`,

`Extent4`.`ValueTitle`,

`Extent4`.`ValueType`,

`Extent4`.`ValueText`,

`Extent4`.`ValueCode`,

`Extent4`.`ValueCodeSystem`,

`Extent4`.`ValueUnits`,

`Extent4`.`ResultStatus` AS `ResultStatus1`,

`Extent4`.`ResultStatusCode` AS `ResultStatusCode1`,

`Extent4`.`ReferencesRange`,

`Extent4`.`AbnormalFlags` AS `AbnormalFlags1`,

`Extent4`.`ObservationMethod` AS `ObservationMethod1`,

`Extent4`.`ObservationDate` AS `ObservationDate1`,

`Extent4`.`PreliminaryDate` AS `PreliminaryDate1`,

`Extent4`.`AuditDate` AS `AuditDate1`,

`Extent4`.`ResultPrincipalID` AS `ResultPrincipalID1`,

`Extent4`.`ResultPrincipalName` AS `ResultPrincipalName1`,

`Extent4`.`ResultAssistantID` AS `ResultAssistantID1`,

`Extent4`.`ResultAssistantName` AS `ResultAssistantName1`,

`Extent4`.`LowerLimit`,

`Extent4`.`UpperLimit`,

`Extent4`.`Memo`,

`Extent4`.`ParentResultSeq`,

`Extent4`.`ParentObservationID`,

`Extent4`.`LastUpdateDate` AS `LastUpdateDate3`,

`Extent4`.`DeleteFlag` AS `DeleteFlag2`,

`Extent4`.`RowTimestamp` AS `RowTimestamp3`,

CASE

WHEN (

`Extent4`.`ResultSeq` IS NULL

) THEN

(NULL)

ELSE

(1)

END AS `C2`

FROM

(

SELECT

`Project1`.`ObservationUID`,

`Project1`.`PatientID`,

`Project1`.`PIDAssigningAuthority`,

`Project1`.`PatientMasterID`,

`Project1`.`PatientClass`,

`Project1`.`VisitUID`,

`Project1`.`OrderUID`,

`Project1`.`OrganizationID`,

`Project1`.`OrganizationName`,

`Project1`.`SourceOrganizationID`,

`Project1`.`SourceOrganizationName`,

`Project1`.`ClinicInfoType`,

`Project1`.`PlacerOrderNO`,

`Project1`.`PlacerAssigningAuthority`,

`Project1`.`PlacerOrderDetailNO`,

`Project1`.`FillerOrderNO`,

`Project1`.`FillerAssigningAuthority`,

`Project1`.`FillerPatientID`,

`Project1`.`AccessionNumber`,

`Project1`.`ServiceID`,

`Project1`.`ServiceCodeScheme`,

`Project1`.`ServiceText`,

`Project1`.`ServiceIDInsur`,

`Project1`.`ServiceSectID`,

`Project1`.`ProcedureID`,

`Project1`.`ProcedureName`,

`Project1`.`ProviderID`,

`Project1`.`ProviderName`,

`Project1`.`ProviderPhone`,

`Project1`.`RequestDeptID`,

`Project1`.`RequestDeptName`,

`Project1`.`RequestOrgID`,

`Project1`.`RequestOrgName`,

`Project1`.`RequestedDate`,

`Project1`.`Reason`,

`Project1`.`Attention`,

`Project1`.`Symptom`,

`Project1`.`AdverseReaction`,

`Project1`.`ClinicDiagnosis`,

`Project1`.`RelevantClinicalInfo`,

`Project1`.`FastingFlag`,

`Project1`.`TransportationMode`,

`Project1`.`SpecimenID`,

`Project1`.`SpecimenName`,

`Project1`.`SpecimenType`,

`Project1`.`SpecimenSource`,

`Project1`.`CollectorID`,

`Project1`.`CollectorName`,

`Project1`.`CollectionDept`,

`Project1`.`CollectionMethod`,

`Project1`.`CollectionVolume`,

`Project1`.`SpecimenReceivedDate`,

`Project1`.`ScheduledDate`,

`Project1`.`ScheduledDateEnd`,

`Project1`.`RegTime`,

`Project1`.`RegisterID`,

`Project1`.`RegisterName`,

`Project1`.`ObservationDeptID`,

`Project1`.`ObservationDeptName`,

`Project1`.`ObservationDate`,

`Project1`.`ObservationEndDate`,

`Project1`.`ObservationLocation`,

`Project1`.`ObservationEquipmentID`,

`Project1`.`ObservationEquipment`,

`Project1`.`EquipmentModel`,

`Project1`.`ObservationMethod`,

`Project1`.`StudyInstanceUID`,

`Project1`.`TechnicianID`,

`Project1`.`TechnicianName`,

`Project1`.`ResultAssistantID`,

`Project1`.`ResultAssistantName`,

`Project1`.`ResultAssistantPhone`,

`Project1`.`ResultPrincipalID`,

`Project1`.`ResultPrincipalName`,

`Project1`.`ResultReviseID`,

`Project1`.`ResultReviseName`,

`Project1`.`PreliminaryDate`,

`Project1`.`AuditDate`,

`Project1`.`ReviseDate`,

`Project1`.`ResultDate`,

`Project1`.`ResultOrganizationID`,

`Project1`.`ResultServiceCenterUID`,

`Project1`.`ResultStatus`,

`Project1`.`ResultStatusCode`,

`Project1`.`ResultPrintCount`,

`Project1`.`ResultPrintTime`,

`Project1`.`AbnormalFlags`,

`Project1`.`CriticalValue`,

`Project1`.`InfectionName`,

`Project1`.`PrivacyLevel`,

`Project1`.`PrivacyLevelExt`,

`Project1`.`Charges`,

`Project1`.`Payments`,

`Project1`.`PaymentsFlag`,

`Project1`.`FilmCount`,

`Project1`.`FilmNeed`,

`Project1`.`HasImage`,

`Project1`.`ImageLocation`,

`Project1`.`ConsultStatus`,

`Project1`.`ConsultRequestDate`,

`Project1`.`ConsultEndDate`,

`Project1`.`ArchiveDate`,

`Project1`.`LastUpdateDate`,

`Project1`.`DataSource`,

`Project1`.`LockFlag`,

`Project1`.`LockUserUID`,

`Project1`.`LockReason`,

`Project1`.`InWritingUserUID`,

`Project1`.`MessageCount`,

`Project1`.`UnProcessWorkflowCount`,

`Project1`.`PushState`,

`Project1`.`DeleteFlag`,

`Project1`.`RowTimestamp`,

`Project1`.`DiskSpace`,

`Project1`.`IsSummary`,

`Project1`.`IsRepeatExamSum`,

`Project1`.`IsDiseaseAnalysisSum`,

`Project1`.`CollectionMark`,

`Project1`.`PatientID1`,

`Project1`.`PIDAssigningAuthority1`,

`Project1`.`IsMPI`,

`Project1`.`PatientMasterID1`,

`Project1`.`Password`,

`Project1`.`CreateDate`,

`Project1`.`CreateUserID`,

`Project1`.`CreateUserName`,

`Project1`.`CreateOrgnizationID`,

`Project1`.`Name`,

`Project1`.`NameSpell`,

`Project1`.`MotherName`,

`Project1`.`Sex`,

`Project1`.`BirthDate`,

`Project1`.`BirthPlace`,

`Project1`.`Nation`,

`Project1`.`Citizenship`,

`Project1`.`MaritalStatus`,

`Project1`.`IdentityType`,

`Project1`.`IdentityID`,

`Project1`.`IDCardNO`,

`Project1`.`HealthCardNO`,

`Project1`.`InsuranceType`,

`Project1`.`InsuranceID`,

`Project1`.`ContactPhoneNO`,

`Project1`.`HomePhoneNO`,

`Project1`.`BusinessPhoneNO`,

`Project1`.`Email`,

`Project1`.`AddressProvince`,

`Project1`.`AddressCity`,

`Project1`.`AddressDistrict`,

`Project1`.`AddressStreet`,

`Project1`.`AddressRoad`,

`Project1`.`AddressDetail`,

`Project1`.`Postalcode`,

`Project1`.`Occupation`,

`Project1`.`WorkUnit`,

`Project1`.`Language`,

`Project1`.`LastUpdateDate1`,

`Project1`.`InHospitalFlag`,

`Project1`.`Status`,

`Project1`.`RowTimestamp1`,

`Project1`.`VisitUID1`,

`Project1`.`PatientID2`,

`Project1`.`PIDAssigningAuthority2`,

`Project1`.`PatientMasterID2`,

`Project1`.`VisitID`,

`Project1`.`AlternateVisitID`,

`Project1`.`AssigningAuthority`,

`Project1`.`PatientClass1`,

`Project1`.`PatientType`,

`Project1`.`MedRecNO`,

`Project1`.`OutPatientNO`,

`Project1`.`InPatientNO`,

`Project1`.`CardType`,

`Project1`.`CardNO`,

`Project1`.`Age`,

`Project1`.`AgeUnit`,

`Project1`.`MaritalStatus1`,

`Project1`.`PregnancyFlag`,

`Project1`.`Occupation1`,

`Project1`.`OrganizationID1`,

`Project1`.`AdmitDate`,

`Project1`.`ReAmissionFlag`,

`Project1`.`AdmissionType`,

`Project1`.`AdmitPatCondition`,

`Project1`.`AdmitDeptID`,

`Project1`.`AdmitDeptName`,

`Project1`.`DeptID`,

`Project1`.`DeptName`,

`Project1`.`PointOfCare`,

`Project1`.`PointOfCareID`,

`Project1`.`Room`,

`Project1`.`Bed`,

`Project1`.`AdmittingDoctorID`,

`Project1`.`AdmittingDoctorName`,

`Project1`.`AttendingDoctorID`,

`Project1`.`AttendingDoctorName`,

`Project1`.`DirectorDoctorID`,

`Project1`.`DirectorDoctorName`,

`Project1`.`CurPatCondition`,

`Project1`.`NursingGrade`,

`Project1`.`DietType`,

`Project1`.`IsHasPacemaker`,

`Project1`.`PrimaryDiagnosis`,

`Project1`.`DischargeDate`,

`Project1`.`DischargeDisposition`,

`Project1`.`TotalCharges`,

`Project1`.`TotalPayments`,

`Project1`.`PaymentMode`,

`Project1`.`MedicalPaymentMode`,

`Project1`.`LastUpdateDate2`,

`Project1`.`DeleteFlag1`,

`Project1`.`RowTimestamp2`,

`Project1`.`C1`

FROM

(

SELECT

`Filter1`.`ObservationUID`,

`Filter1`.`PatientID`,

`Filter1`.`PIDAssigningAuthority`,

`Filter1`.`PatientMasterID`,

`Filter1`.`PatientClass`,

`Filter1`.`VisitUID`,

`Filter1`.`OrderUID`,

`Filter1`.`OrganizationID`,

`Filter1`.`OrganizationName`,

`Filter1`.`SourceOrganizationID`,

`Filter1`.`SourceOrganizationName`,

`Filter1`.`ClinicInfoType`,

`Filter1`.`PlacerOrderNO`,

`Filter1`.`PlacerAssigningAuthority`,

`Filter1`.`PlacerOrderDetailNO`,

`Filter1`.`FillerOrderNO`,

`Filter1`.`FillerAssigningAuthority`,

`Filter1`.`FillerPatientID`,

`Filter1`.`AccessionNumber`,

`Filter1`.`ServiceID`,

`Filter1`.`ServiceCodeScheme`,

`Filter1`.`ServiceText`,

`Filter1`.`ServiceIDInsur`,

`Filter1`.`ServiceSectID`,

`Filter1`.`ProcedureID`,

`Filter1`.`ProcedureName`,

`Filter1`.`ProviderID`,

`Filter1`.`ProviderName`,

`Filter1`.`ProviderPhone`,

`Filter1`.`RequestDeptID`,

`Filter1`.`RequestDeptName`,

`Filter1`.`RequestOrgID`,

`Filter1`.`RequestOrgName`,

`Filter1`.`RequestedDate`,

`Filter1`.`Reason`,

`Filter1`.`Attention`,

`Filter1`.`Symptom`,

`Filter1`.`AdverseReaction`,

`Filter1`.`ClinicDiagnosis`,

`Filter1`.`RelevantClinicalInfo`,

`Filter1`.`FastingFlag`,

`Filter1`.`TransportationMode`,

`Filter1`.`SpecimenID`,

`Filter1`.`SpecimenName`,

`Filter1`.`SpecimenType`,

`Filter1`.`SpecimenSource`,

`Filter1`.`CollectorID`,

`Filter1`.`CollectorName`,

`Filter1`.`CollectionDept`,

`Filter1`.`CollectionMethod`,

`Filter1`.`CollectionVolume`,

`Filter1`.`SpecimenReceivedDate`,

`Filter1`.`ScheduledDate`,

`Filter1`.`ScheduledDateEnd`,

`Filter1`.`RegTime`,

`Filter1`.`RegisterID`,

`Filter1`.`RegisterName`,

`Filter1`.`ObservationDeptID`,

`Filter1`.`ObservationDeptName`,

`Filter1`.`ObservationDate`,

`Filter1`.`ObservationEndDate`,

`Filter1`.`ObservationLocation`,

`Filter1`.`ObservationEquipmentID`,

`Filter1`.`ObservationEquipment`,

`Filter1`.`EquipmentModel`,

`Filter1`.`ObservationMethod`,

`Filter1`.`StudyInstanceUID`,

`Filter1`.`TechnicianID`,

`Filter1`.`TechnicianName`,

`Filter1`.`ResultAssistantID`,

`Filter1`.`ResultAssistantName`,

`Filter1`.`ResultAssistantPhone`,

`Filter1`.`ResultPrincipalID`,

`Filter1`.`ResultPrincipalName`,

`Filter1`.`ResultReviseID`,

`Filter1`.`ResultReviseName`,

`Filter1`.`PreliminaryDate`,

`Filter1`.`AuditDate`,

`Filter1`.`ReviseDate`,

`Filter1`.`ResultDate`,

`Filter1`.`ResultOrganizationID`,

`Filter1`.`ResultServiceCenterUID`,

`Filter1`.`ResultStatus`,

`Filter1`.`ResultStatusCode`,

`Filter1`.`ResultPrintCount`,

`Filter1`.`ResultPrintTime`,

`Filter1`.`AbnormalFlags`,

`Filter1`.`CriticalValue`,

`Filter1`.`InfectionName`,

`Filter1`.`PrivacyLevel`,

`Filter1`.`PrivacyLevelExt`,

`Filter1`.`Charges`,

`Filter1`.`Payments`,

`Filter1`.`PaymentsFlag`,

`Filter1`.`FilmCount`,

`Filter1`.`FilmNeed`,

`Filter1`.`HasImage`,

`Filter1`.`ImageLocation`,

`Filter1`.`ConsultStatus`,

`Filter1`.`ConsultRequestDate`,

`Filter1`.`ConsultEndDate`,

`Filter1`.`ArchiveDate`,

`Filter1`.`LastUpdateDate`,

`Filter1`.`DataSource`,

`Filter1`.`LockFlag`,

`Filter1`.`LockUserUID`,

`Filter1`.`LockReason`,

`Filter1`.`InWritingUserUID`,

`Filter1`.`MessageCount`,

`Filter1`.`UnProcessWorkflowCount`,

`Filter1`.`PushState`,

`Filter1`.`DeleteFlag`,

`Filter1`.`RowTimestamp`,

`Filter1`.`DiskSpace`,

`Filter1`.`IsSummary`,

`Filter1`.`IsRepeatExamSum`,

`Filter1`.`IsDiseaseAnalysisSum`,

`Filter1`.`CollectionMark`,

`Filter1`.`PATIENTID1` AS `PatientID1`,

`Filter1`.`PIDASSIGNINGAUTHORITY1` AS `PIDAssigningAuthority1`,

`Filter1`.`IsMPI`,

`Filter1`.`PATIENTMASTERID1` AS `PatientMasterID1`,

`Filter1`.`Password`,

`Filter1`.`CreateDate`,

`Filter1`.`CreateUserID`,

`Filter1`.`CreateUserName`,

`Filter1`.`CreateOrgnizationID`,

`Filter1`.`Name`,

`Filter1`.`NameSpell`,

`Filter1`.`MotherName`,

`Filter1`.`Sex`,

`Filter1`.`BirthDate`,

`Filter1`.`BirthPlace`,

`Filter1`.`Nation`,

`Filter1`.`Citizenship`,

`Filter1`.`MaritalStatus`,

`Filter1`.`IdentityType`,

`Filter1`.`IdentityID`,

`Filter1`.`IDCardNO`,

`Filter1`.`HealthCardNO`,

`Filter1`.`InsuranceType`,

`Filter1`.`InsuranceID`,

`Filter1`.`ContactPhoneNO`,

`Filter1`.`HomePhoneNO`,

`Filter1`.`BusinessPhoneNO`,

`Filter1`.`Email`,

`Filter1`.`AddressProvince`,

`Filter1`.`AddressCity`,

`Filter1`.`AddressDistrict`,

`Filter1`.`AddressStreet`,

`Filter1`.`AddressRoad`,

`Filter1`.`AddressDetail`,

`Filter1`.`Postalcode`,

`Filter1`.`Occupation`,

`Filter1`.`WorkUnit`,

`Filter1`.`Language`,

`Filter1`.`LASTUPDATEDATE1` AS `LastUpdateDate1`,

`Filter1`.`InHospitalFlag`,

`Filter1`.`Status`,

`Filter1`.`ROWTIMESTAMP1` AS `RowTimestamp1`,

`Extent3`.`VisitUID` AS `VisitUID1`,

`Extent3`.`PatientID` AS `PatientID2`,

`Extent3`.`PIDAssigningAuthority` AS `PIDAssigningAuthority2`,

`Extent3`.`PatientMasterID` AS `PatientMasterID2`,

`Extent3`.`VisitID`,

`Extent3`.`AlternateVisitID`,

`Extent3`.`AssigningAuthority`,

`Extent3`.`PatientClass` AS `PatientClass1`,

`Extent3`.`PatientType`,

`Extent3`.`MedRecNO`,

`Extent3`.`OutPatientNO`,

`Extent3`.`InPatientNO`,

`Extent3`.`CardType`,

`Extent3`.`CardNO`,

`Extent3`.`Age`,

`Extent3`.`AgeUnit`,

`Extent3`.`MaritalStatus` AS `MaritalStatus1`,

`Extent3`.`PregnancyFlag`,

`Extent3`.`Occupation` AS `Occupation1`,

`Extent3`.`OrganizationID` AS `OrganizationID1`,

`Extent3`.`AdmitDate`,

`Extent3`.`ReAmissionFlag`,

`Extent3`.`AdmissionType`,

`Extent3`.`AdmitPatCondition`,

`Extent3`.`AdmitDeptID`,

`Extent3`.`AdmitDeptName`,

`Extent3`.`DeptID`,

`Extent3`.`DeptName`,

`Extent3`.`PointOfCare`,

`Extent3`.`PointOfCareID`,

`Extent3`.`Room`,

`Extent3`.`Bed`,

`Extent3`.`AdmittingDoctorID`,

`Extent3`.`AdmittingDoctorName`,

`Extent3`.`AttendingDoctorID`,

`Extent3`.`AttendingDoctorName`,

`Extent3`.`DirectorDoctorID`,

`Extent3`.`DirectorDoctorName`,

`Extent3`.`CurPatCondition`,

`Extent3`.`NursingGrade`,

`Extent3`.`DietType`,

`Extent3`.`IsHasPacemaker`,

`Extent3`.`PrimaryDiagnosis`,

`Extent3`.`DischargeDate`,

`Extent3`.`DischargeDisposition`,

`Extent3`.`TotalCharges`,

`Extent3`.`TotalPayments`,

`Extent3`.`PaymentMode`,

`Extent3`.`MedicalPaymentMode`,

`Extent3`.`LastUpdateDate` AS `LastUpdateDate2`,

`Extent3`.`DeleteFlag` AS `DeleteFlag1`,

`Extent3`.`RowTimestamp` AS `RowTimestamp2`,

1 AS `C1`

FROM

(

SELECT

`Extent1`.`ObservationUID`,

`Extent1`.`PatientID`,

`Extent1`.`PIDAssigningAuthority`,

`Extent1`.`PatientMasterID`,

`Extent1`.`PatientClass`,

`Extent1`.`VisitUID`,

`Extent1`.`OrderUID`,

`Extent1`.`OrganizationID`,

`Extent1`.`OrganizationName`,

`Extent1`.`SourceOrganizationID`,

`Extent1`.`SourceOrganizationName`,

`Extent1`.`ClinicInfoType`,

`Extent1`.`PlacerOrderNO`,

`Extent1`.`PlacerAssigningAuthority`,

`Extent1`.`PlacerOrderDetailNO`,

`Extent1`.`FillerOrderNO`,

`Extent1`.`FillerAssigningAuthority`,

`Extent1`.`FillerPatientID`,

`Extent1`.`AccessionNumber`,

`Extent1`.`ServiceID`,

`Extent1`.`ServiceCodeScheme`,

`Extent1`.`ServiceText`,

`Extent1`.`ServiceIDInsur`,

`Extent1`.`ServiceSectID`,

`Extent1`.`ProcedureID`,

`Extent1`.`ProcedureName`,

`Extent1`.`ProviderID`,

`Extent1`.`ProviderName`,

`Extent1`.`ProviderPhone`,

`Extent1`.`RequestDeptID`,

`Extent1`.`RequestDeptName`,

`Extent1`.`RequestOrgID`,

`Extent1`.`RequestOrgName`,

`Extent1`.`RequestedDate`,

`Extent1`.`Reason`,

`Extent1`.`Attention`,

`Extent1`.`Symptom`,

`Extent1`.`AdverseReaction`,

`Extent1`.`ClinicDiagnosis`,

`Extent1`.`RelevantClinicalInfo`,

`Extent1`.`FastingFlag`,

`Extent1`.`TransportationMode`,

`Extent1`.`SpecimenID`,

`Extent1`.`SpecimenName`,

`Extent1`.`SpecimenType`,

`Extent1`.`SpecimenSource`,

`Extent1`.`CollectorID`,

`Extent1`.`CollectorName`,

`Extent1`.`CollectionDept`,

`Extent1`.`CollectionMethod`,

`Extent1`.`CollectionVolume`,

`Extent1`.`SpecimenReceivedDate`,

`Extent1`.`ScheduledDate`,

`Extent1`.`ScheduledDateEnd`,

`Extent1`.`RegTime`,

`Extent1`.`RegisterID`,

`Extent1`.`RegisterName`,

`Extent1`.`ObservationDeptID`,

`Extent1`.`ObservationDeptName`,

`Extent1`.`ObservationDate`,

`Extent1`.`ObservationEndDate`,

`Extent1`.`ObservationLocation`,

`Extent1`.`ObservationEquipmentID`,

`Extent1`.`ObservationEquipment`,

`Extent1`.`EquipmentModel`,

`Extent1`.`ObservationMethod`,

`Extent1`.`StudyInstanceUID`,

`Extent1`.`TechnicianID`,

`Extent1`.`TechnicianName`,

`Extent1`.`ResultAssistantID`,

`Extent1`.`ResultAssistantName`,

`Extent1`.`ResultAssistantPhone`,

`Extent1`.`ResultPrincipalID`,

`Extent1`.`ResultPrincipalName`,

`Extent1`.`ResultReviseID`,

`Extent1`.`ResultReviseName`,

`Extent1`.`PreliminaryDate`,

`Extent1`.`AuditDate`,

`Extent1`.`ReviseDate`,

`Extent1`.`ResultDate`,

`Extent1`.`ResultOrganizationID`,

`Extent1`.`ResultServiceCenterUID`,

`Extent1`.`ResultStatus`,

`Extent1`.`ResultStatusCode`,

`Extent1`.`ResultPrintCount`,

`Extent1`.`ResultPrintTime`,

`Extent1`.`AbnormalFlags`,

`Extent1`.`CriticalValue`,

`Extent1`.`InfectionName`,

`Extent1`.`PrivacyLevel`,

`Extent1`.`PrivacyLevelExt`,

`Extent1`.`Charges`,

`Extent1`.`Payments`,

`Extent1`.`PaymentsFlag`,

`Extent1`.`FilmCount`,

`Extent1`.`FilmNeed`,

`Extent1`.`HasImage`,

`Extent1`.`ImageLocation`,

`Extent1`.`ConsultStatus`,

`Extent1`.`ConsultRequestDate`,

`Extent1`.`ConsultEndDate`,

`Extent1`.`ArchiveDate`,

`Extent1`.`LastUpdateDate`,

`Extent1`.`DataSource`,

`Extent1`.`LockFlag`,

`Extent1`.`LockUserUID`,

`Extent1`.`LockReason`,

`Extent1`.`InWritingUserUID`,

`Extent1`.`MessageCount`,

`Extent1`.`UnProcessWorkflowCount`,

`Extent1`.`PushState`,

`Extent1`.`DeleteFlag`,

`Extent1`.`RowTimestamp`,

`Extent1`.`DiskSpace`,

`Extent1`.`IsSummary`,

`Extent1`.`IsRepeatExamSum`,

`Extent1`.`IsDiseaseAnalysisSum`,

`Extent1`.`CollectionMark`,

`Extent2`.`PatientID` AS `PATIENTID1`,

`Extent2`.`PIDAssigningAuthority` AS `PIDASSIGNINGAUTHORITY1`,

`Extent2`.`IsMPI`,

`Extent2`.`PatientMasterID` AS `PATIENTMASTERID1`,

`Extent2`.`Password`,

`Extent2`.`CreateDate`,

`Extent2`.`CreateUserID`,

`Extent2`.`CreateUserName`,

`Extent2`.`CreateOrgnizationID`,

`Extent2`.`Name`,

`Extent2`.`NameSpell`,

`Extent2`.`MotherName`,

`Extent2`.`Sex`,

`Extent2`.`BirthDate`,

`Extent2`.`BirthPlace`,

`Extent2`.`Nation`,

`Extent2`.`Citizenship`,

`Extent2`.`MaritalStatus`,

`Extent2`.`IdentityType`,

`Extent2`.`IdentityID`,

`Extent2`.`IDCardNO`,

`Extent2`.`HealthCardNO`,

`Extent2`.`InsuranceType`,

`Extent2`.`InsuranceID`,

`Extent2`.`ContactPhoneNO`,

`Extent2`.`HomePhoneNO`,

`Extent2`.`BusinessPhoneNO`,

`Extent2`.`Email`,

`Extent2`.`AddressProvince`,

`Extent2`.`AddressCity`,

`Extent2`.`AddressDistrict`,

`Extent2`.`AddressStreet`,

`Extent2`.`AddressRoad`,

`Extent2`.`AddressDetail`,

`Extent2`.`Postalcode`,

`Extent2`.`Occupation`,

`Extent2`.`WorkUnit`,

`Extent2`.`Language`,

`Extent2`.`LastUpdateDate` AS `LASTUPDATEDATE1`,

`Extent2`.`InHospitalFlag`,

`Extent2`.`Status`,

`Extent2`.`RowTimestamp` AS `ROWTIMESTAMP1`

FROM

`ObservationRequest` AS `Extent1`

INNER JOIN `PatientIndex` AS `Extent2` ON (

`Extent1`.`PatientID` = `Extent2`.`PatientID`

)

AND (

`Extent1`.`PIDAssigningAuthority` = `Extent2`.`PIDAssigningAuthority`

)

WHERE

(0 = `Extent1`.`DeleteFlag`)

AND (

(

`Extent1`.`CollectionMark` NOT IN (1111, 1144, 1141, 1114)

)

OR (

`Extent1`.`CollectionMark` IS NULL

)

)

) AS `Filter1`

INNER JOIN `Visit` AS `Extent3` ON `Filter1`.`VisitUID` = `Extent3`.`VisitUID`

WHERE

(0 = `Extent3`.`DeleteFlag`)

AND (

`Filter1`.`OrganizationID` = @p\_\_linq\_\_0

)

) AS `Project1`

ORDER BY

`Project1`.`ObservationDate` DESC

LIMIT 120

) AS `Limit1`

LEFT OUTER JOIN `ObservationResult` AS `Extent4` ON (

`Extent4`.`ObservationUID` = `Limit1`.`ObservationUID`

)

AND (0 = `Extent4`.`DeleteFlag`)

) AS `Project2`

ORDER BY

`Project2`.`ObservationDate` DESC,

`Project2`.`ObservationUID` ASC,

`Project2`.`PatientID1` ASC,

`Project2`.`PIDAssigningAuthority1` ASC,

`Project2`.`VisitUID1` ASC,

`Project2`.`C2` ASC

18.

背景：邵逸夫医院离线采集影像工具，需要根据影像的AccessionNumber;PatientId;Modality信息;

从归档平台获取检查的observationUID，存在影像文件的Modality;与平台上ServiceSectID不一致的情况，需要新增接口供离线采集工具使用;;

需要实现：邵逸夫医院离线采集影像工具，需要根据影像的AccessionNumber;PatientId;Modality信息;

从归档平台获取检查的observationUID，存在影像文件的Modality;与平台上ServiceSectID不一致的情况，需要新增接口供离线采集工具查询检查类型

GetExamInfoByOffline

19.

严重性 代码 说明 项目 文件 行 禁止显示状态

错误 CS0012 类型“Bitmap”在未引用的程序集中定义。必须添加对程序集“System.Drawing, Version=4.0.0.0, Culture=neutral, PublicKeyToken=b03f5f7f11d50a3a”的引用。 eWorld.Plugin.WebAPI.CloudArchive E:\some\work\AbilityOP\trunk\OpenPlat\Plugins\eWorld.Plugin.WebAPI.CloudArchive\Controllers\PublicController.cs 501 活动

获取的地址：

<http://218.108.111.166:9200/IDCAS/8712b3ad5a422c4>

修改后：

<http://218.108.111.166:9200/IDCAS/Mobile/PatientExam/Index/c7cde3e331112914>

<http://115.236.163.163:9200/IDCAS/Mobile/PatientExam/Index/c7cde3e331112914>

http://115.236.163.163:9200/IDCAS/Mobile/PatientExam/Index/ed92c12b680c00f6

http://localhost:9200/Mobile/PatientExam/Index/c7cde3e331112914

20.

1.0.6的

21.

更改的地方:

1）

<!--影像云存储地址（开发测试用,发布不需要配置） -->

<add key="IDCASUrl" value="http://localhost:9300/" />

2）

// 最终地址

// \_imageArchiveClient = new eWorldWCFClient<IImageArchiveService>(WebServiceUrlManager.ImageArchiveWebServiceUrl);

// 调试地址

\_imageArchiveClient = new eWorldWCFClient<IImageArchiveService>("http://localhost:9301/Services/ImageArchiveService.svc");

22.

ImageArchiveDatabaseInfo.ConnectionString "server=192.168.10.79;port=3306;database=ImageArchive;uid=sa;password=tomtaw" string

知道原因了，初始化连接的工具不对。不是202上面的。

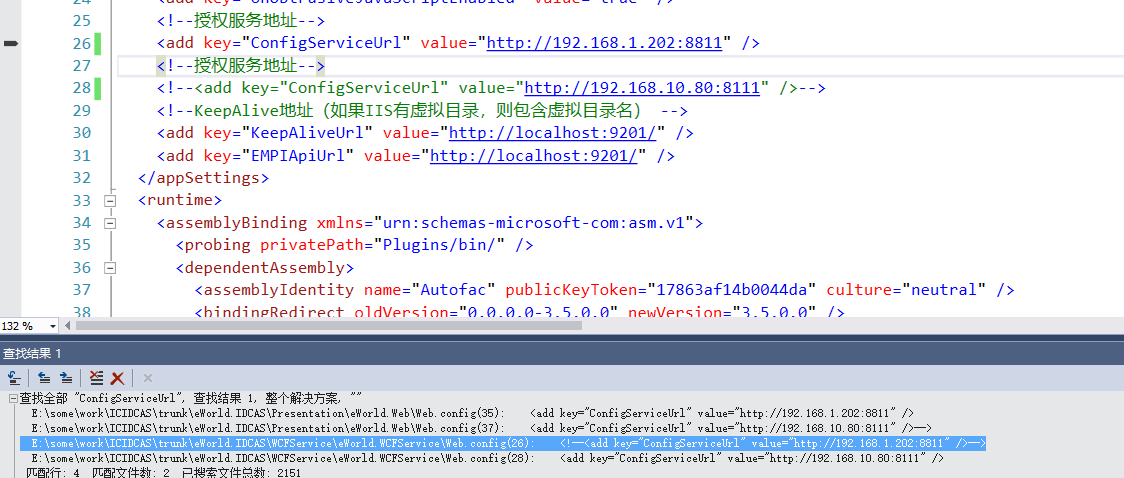
换回来了：

<!--授权服务地址-->

<add key="ConfigServiceUrl" value="http://192.168.1.202:8811" />

<!--授权服务地址--><!--

<add key="ConfigServiceUrl" value="http://192.168.10.80:8111" />-->



wcf和web的初始化配置都改回来了。

加了身份证，然后验证身份证后6位之后就成功了。

测试用户后六位：141448

23.

当不是管理员15，自己配置进去，会造成无法获取金牌机构数据。

是否要通过两个接口，先获取所有所属的机构列表，再来获取对应的机构信息？

24.

1）患者信息多余的就诊表的入参

2）

a.去掉了检查信息注册，会诊的入参。

b.删除所有预约相关的入参，因为无法去和别人去解释。

c.加了result里面的observation\_id扩展，还有检验。它在request中是叫lab，但这里的叫法。——GDT:检查所见、IMP:检查诊断、REC:诊断建议、ADT:诊断备注、ConsultAdvice:会诊意见、Gross:病理巨检、

d.检查改为观察，因为可能是有检验的。

25.

质量报告: GetExamStatistics

如果时间不传，默认是查询距离此刻近7天的数据。

if (query.observationEndDate == null)

{

query.observationEndDate = DateTime.Now;

}

if (query.observationStartDate == null)

{

query.observationStartDate = query.observationEndDate.Value.AddDays(-7);

}

查询的时间默认是存在影像的记录。

var querySql = from t in \_observationRequestRepository.Table

where t.DeleteFlag == false && t.HasImage.Value == true

select t;

新方法，优化之后：

/// <summary>

/// 质控检查统计数量

/// </summary>

/// <param name="query"></param>

/// <returns></returns>

public List<ExtractExamStatisticsDTO> GetExamStatistics(QualityQuery query)

{

Stopwatch sw = null;

var result = new List<ExtractExamStatisticsDTO>();

try

{

if (\_logDebug)

{

sw = new Stopwatch();

sw.Start();

\_log.Debug("收到GetPatientExamList方法调用，参数：" + JsonConvert.SerializeObject(query));

}

var observationList = QueryObservationRequest(query)

.Select(x => new

{

x.ServiceSectID,

x.ServiceText,

x.OrganizationID,

x.OrganizationName

});

if (!string.IsNullOrWhiteSpace(query.serviceText))

{

result = observationList.GroupBy(t => new

{

t.OrganizationID,

t.OrganizationName,

t.ServiceSectID,

t.ServiceText

}).Select(t => new ExtractExamStatisticsDTO

{

OrganizationCode = t.Key.OrganizationID,

OrganizationName = t.Key.OrganizationName,

ServiceSectID = t.Key.ServiceSectID,

ServiceText = t.Key.ServiceText,

Count = t.Count()

}).ToList();

}

else

{

result = observationList.GroupBy(t => new

{

t.OrganizationID,

t.OrganizationName,

t.ServiceSectID

}).Select(t => new ExtractExamStatisticsDTO

{

OrganizationCode = t.Key.OrganizationID,

OrganizationName = t.Key.OrganizationName,

ServiceSectID = t.Key.ServiceSectID,

Count = t.Count()

}).ToList();

}

return result;

}

catch (Exception ex)

{

\_log.Error(ex.Message, ex);

return result;

}

finally

{

if (\_logDebug)

{

sw.Stop();

\_log.Debug(string.Format("函数耗费时间:{0}ms", sw.ElapsedMilliseconds.ToString()));

}

}

}

修订后的速度，秒回



结果集：

{

"code": 0,

"msg": "成功",

"data": {

"DataList": [

{

"ServiceSectID": "CR",

"ServiceText": null,

"OrganizationCode": "2402",

"OrganizationName": null,

"Count": 1222

},

{

"ServiceSectID": "CT",

"ServiceText": null,

"OrganizationCode": "2402",

"OrganizationName": null,

"Count": 1194

},

{

"ServiceSectID": "DR",

"ServiceText": null,

"OrganizationCode": "2402",

"OrganizationName": null,

"Count": 1237

},

{

"ServiceSectID": "ES",

"ServiceText": null,

"OrganizationCode": "2402",

"OrganizationName": null,

"Count": 1205

},

{

"ServiceSectID": "MR",

"ServiceText": null,

"OrganizationCode": "2402",

"OrganizationName": null,

"Count": 1224

},

{

"ServiceSectID": "PS",

"ServiceText": null,

"OrganizationCode": "2402",

"OrganizationName": null,

"Count": 1244

},

{

"ServiceSectID": "RF",

"ServiceText": null,

"OrganizationCode": "2402",

"OrganizationName": null,

"Count": 1250

},

{

"ServiceSectID": "US",

"ServiceText": null,

"OrganizationCode": "2402",

"OrganizationName": null,

"Count": 1151

},

{

"ServiceSectID": "XA",

"ServiceText": null,

"OrganizationCode": "2402",

"OrganizationName": null,

"Count": 1218

}

]

}

}

26.

我修改区域影像，视图，这块的测试问题。

质量报告，自己写。

crm原来的data：

Project("{FAE04EC0-301F-11D3-BF4B-00C04F79EFBC}") = "eWorld.Entity", "..\..\..\Data\branches\1.0.6.20190225\_mining\entity\eWorld.Entity\eWorld.Entity.csproj", "{BD066F4B-E1AB-423E-BC3D-B32688CE6EF9}"

27.

有待搜索

ClinicDataOperationRepository

28.



遗留问题，二维码的过期时间我还没有设定。

23.

http://192.168.1.202:9200/IDCAS/SharingVisits/Interface/ExamList?IDCardNO=FF941BE673023CB37A1ACAF2A38B33701F384A8AD2AA4CAE

24.

nb2ss.mtywcloud.com:9200/IDCAS/SharingVisits/Interface/ExamList?IDCardNO= F6A1B82B87A09E2F790F312A63DC12F0D5CABE6280BDDF97

nb2ss.mtywcloud.com:9200/IDCAS/SharingVisits/Interface/ExamList?IDCardNO=9B9CFB5F3FE911D25AA6052652CF9036A08D5802B844A0AF

http://115.231.181.5:9200/IDCAS/SharingVisits/Interface/ExamList?IDCardNO=9B9CFB5F3FE911D25AA6052652CF9036A08D5802B844A0AF

25.

var clinicinfotype = new List<string> { "Exam", "Lab" };

var observationRequestSql = from a in \_observationRequestRepository.Table

where a.DeleteFlag == false && (!mark.Contains(a.CollectionMark.Value) || !a.CollectionMark.HasValue) && clinicinfotype.Contains(a.ClinicInfoType)

26.