**病历时限功能模块的升级步骤如下：**

1. **停止自动同步数据的服务YidanJobService**
2. **在JobManager文件夹中:**

删除：

YidanSoft.Core.TimeLimitQC.dll

增加：

YidanSoft.Emr.QCTimeLimit.dll

YiDanSqlHelper.dll

YiDanCommon.Ctrs.dll

YidanSoft.JobTasks.dll

YidanSoft.JobManager.exe

1. **自动升级程序OracleRun的文件夹中增加：**

YidanSoft.Emr.QCTimeLimit.dll 已改

YidanSoft.Core.OwnBedInfo.dll 已改

YiDanSqlHelper.dll 已改

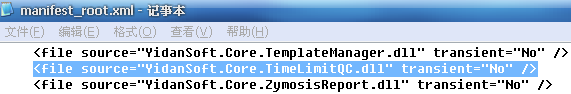
YindanSoft.Emr.QcManager.dll 已改

YindanSoft.Emr.QcManager\_RH.dll 已改

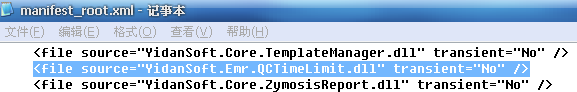
YindanSoft.Emr.Util cyq修改

YiDanCommon.dll xlb修改

1. **修改manifest\_root.xml文件中节点的内容**



将选中的改为：



1. **删除原始基础数据、业务数据**

delete from rulecategory;

delete from qccondition;

delete from qcrule;

delete from rulecategory;

delete from qcrecord;

commit;

1. **表结构修改**

--\*\*\*\*\*\*\*\*\*\*\*\*QCCONDITION\*\*\*\*\*\*\*\*\*\*\*\*\*\*

alter table qccondition add TABLENAME VARCHAR2(32);

COMMENT ON COLUMN "YIDANDBA"."QCCONDITION"."TABLENAME" IS '需要配置的表名';

alter table qccondition add COLUMNNAME VARCHAR2(32);

COMMENT ON COLUMN "YIDANDBA"."QCCONDITION"."COLUMNNAME" IS 'TABLENAME表中对应的列名';

alter table qccondition add COLUMNVALUE VARCHAR2(32);

COMMENT ON COLUMN "YIDANDBA"."QCCONDITION"."COLUMNVALUE" IS 'TABLENAME表中COLUMNNAME对应列的具体值';

alter table qccondition add TIMECOLUMNNAME VARCHAR2(32);

COMMENT ON COLUMN "YIDANDBA"."QCCONDITION"."TIMECOLUMNNAME" IS 'COLUMNNAME对应的时间字段名';

alter table qccondition add TIMERANGE VARCHAR2(32);

COMMENT ON COLUMN "YIDANDBA"."QCCONDITION"."TIMERANGE" IS 'TIMECOLUMNNAME对应的时间范围(以秒计算)';

alter table qccondition add PATNOCOLUMNNAME VARCHAR2(32);

COMMENT ON COLUMN "YIDANDBA"."QCCONDITION"."PATNOCOLUMNNAME" IS 'TABLENAME表中病人序号字段';

alter table qccondition add DBLINK VARCHAR2(32);

COMMENT ON COLUMN "YIDANDBA"."QCCONDITION"."DBLINK" IS 'TABLENAME所在的数据库 分为：EMR、HIS';

--\*\*\*\*\*\*\*\*\*\*\*\*QCRULE\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

alter table qcrule add DELAYTIME INTEGER DEFAULT 0;

COMMENT ON COLUMN "YIDANDBA"."QCRULE"."DELAYTIME" IS '延迟时间(以秒计算)';

alter table qcrule add SCORE NUMBER(14,4) DEFAULT 0;

COMMENT ON COLUMN "YIDANDBA"."QCRULE"."SCORE" IS '扣分';

alter table qcrule add QCCODE VARCHAR2(64);

COMMENT ON COLUMN "YIDANDBA"."QCRULE"."QCCODE" IS '监控代码 EMRQCITEM.ID';

--\*\*\*\*\*\*\*\*\*\*\*\*QCRECORD\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

alter table qcrecord add ISCYCLE VARCHAR2(1);

COMMENT ON COLUMN "YIDANDBA"."QCRECORD"."ISCYCLE" IS '是否循环 0:不循环 1:循环';

alter table qcrecord add FIRSTCYCLERECORDID VARCHAR2(64);

COMMENT ON COLUMN "YIDANDBA"."QCRECORD"."FIRSTCYCLERECORDID" IS '循环规则第一条记录 QCRECORD.ID，ISCYCLE==1时生效';

alter table qcrecord add TIMELIMIT INTEGER;

COMMENT ON COLUMN "YIDANDBA"."QCRECORD"."TIMELIMIT" IS '规则时限(以秒计算)';

alter table qcrecord add QCCODE VARCHAR2(64);

COMMENT ON COLUMN "YIDANDBA"."QCRECORD"."QCCODE" IS '监控代码';

alter table qcrecord add RECORDDETAILID VARCHAR2(64);

COMMENT ON COLUMN "YIDANDBA"."QCRECORD"."RECORDDETAILID" IS '病历编号 Recorddetail.ID';

alter table qcrecord add SCORE NUMBER(14,4);

COMMENT ON COLUMN "YIDANDBA"."QCRECORD"."SCORE" IS '扣分';

alter table qcrecord add REALCONDITIONTIME CHAR(19);

COMMENT ON COLUMN "YIDANDBA"."QCRECORD"."REALCONDITIONTIME" IS '条件时间(条件成立的时间) 触发的时间 + 延迟时间';

alter table qcrecord add ISSTOPCYCLE INTEGER;

COMMENT ON COLUMN "YIDANDBA"."QCRECORD"."ISSTOPCYCLE" IS '【针对循环时限规则ISCYCLE == 1 且 病人在院Status != 1502】表示下一次是否需要插入初始化数据到QCRecord表中，即是否停止循环ISCYCLENEXT == 1， 表示下一次不需要插入数据，即循环停止';

------------------------------------------------------------------------------------------------------

alter table qcrecord modify noofrecord VARCHAR2(64);

alter table qccondition modify category INTEGER null;

alter table qcrule modify resultcode VARCHAR2(64) null;

1. **Inpatient表中增加转科时间**

alter table inpatient add ChangeDeptDateTime CHAR(19);

COMMENT ON COLUMN "YIDANDBA"."INPATIENT"."CHANGEDEPTDATETIME" IS '转科时间 (由触发器生成，在inpatient.status=1507时触发)';

1. **创建触发器，记录转科时间**

create or replace trigger INPATIENT\_CHANGEDEPTTIME

before update on inpatient

for each row

declare

-- local variables here

begin

if :NEW.Status = '1507' then

begin

select to\_char(sysdate, 'YYYY-MM-DD HH24:MI:SS') into :NEW.ChangeDeptDateTime from dual;

end;

end if;

end INPATIENT\_CHANGEDEPTTIME;

1. **Inpatient表中增加死亡时间**

alter table inpatient add DeathDateTime CHAR(19);

COMMENT ON COLUMN "YIDANDBA"."INPATIENT"."DEATHDATETIME" IS '死亡时间 (由触发器生成，在病案首页基础表中的出院方式为死亡时触发)';

1. **创建触发器，记录死亡时间 【通过iem\_mainpage\_basicinfo\_2012 或 iem\_mainpage\_basicinfo\_sx 触发】**

--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create or replace trigger IEMMAINPAGE\_DEATH

before update on iem\_mainpage\_basicinfo\_2012

for each row

declare

-- local variables here

begin

if :NEW.outhostype = '5' then

begin

update inpatient

set deathdatetime = to\_char(sysdate, 'YYYY-MM-DD HH24:MI:SS')

where noofinpat = :NEW.noofinpat;

end;

else

begin

update inpatient

set deathdatetime = null

where noofinpat = :NEW.noofinpat;

end;

end if;

end IEMMAINPAGE\_DEATH;

--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

create or replace trigger IEMMAINPAGESX\_DEATH

before update on iem\_mainpage\_basicinfo\_sx

for each row

declare

-- local variables here

begin

if :NEW.outhostype = '5' then

begin

update inpatient

set deathdatetime = to\_char(sysdate, 'YYYY-MM-DD HH24:MI:SS')

where noofinpat = :NEW.noofinpat;

end;

else

begin

update inpatient

set deathdatetime = null

where noofinpat = :NEW.noofinpat;

end;

end if;

end IEMMAINPAGESX\_DEATH;

--\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

1. **QCRecord表索引修改**

drop index IDX\_QCRECORD\_RESULTCODE; --删除旧索引

1. **创建病人视图**

create or replace view QCTIME\_INPATIENT as

select noofinpat, patnoofhis, noofclinic, noofrecord, patid, name,

admitdept, admitward, admitbed,

to\_date(admitdate, 'yyyy-mm-dd hh24:mi:ss') admitdate,

to\_date(inwarddate, 'yyyy-mm-dd hh24:mi:ss') inwarddate,

outhosdept, outhosward, outbed,

to\_date(outwarddate, 'yyyy-mm-dd hh24:mi:ss') outwarddate,

to\_date(outhosdate, 'yyyy-mm-dd hh24:mi:ss') outhosdate,status,

to\_date(ChangeDeptDateTime, 'yyyy-mm-dd hh24:mi:ss') changedeptdatetime,

to\_date(deathdatetime, 'yyyy-mm-dd hh24:mi:ss') deathdatetime,

nvl2(deathdatetime, '1', '0') isdeath

from inpatient;

1. **插入初始化的基础数据**

-----rulecategory

insert into rulecategory (CODE, DESCRIPTION, PY, WB, VALID, MEMO) values ('1', '入院记录', 'ryjl', ' ', 1, ' ');

insert into rulecategory (CODE, DESCRIPTION, PY, WB, VALID, MEMO) values ('2', '首次病程', 'scbc', ' ', 1, ' ');

insert into rulecategory (CODE, DESCRIPTION, PY, WB, VALID, MEMO) values ('3', '日常病程', 'rcbc', ' ', 1, ' ');

insert into rulecategory (CODE, DESCRIPTION, PY, WB, VALID, MEMO) values ('4', '手术病程', 'ssbc', ' ', 1, ' ');

insert into rulecategory (CODE, DESCRIPTION, PY, WB, VALID, MEMO) values ('5', '离院记录', 'lyjl', ' ', 1, ' ');

-----qccondition

insert into qccondition (CODE, CATEGORY, DESCRIPTION, CONDITION, TIMEINSTALL, VALID, MEMO, TABLENAME,

COLUMNNAME, COLUMNVALUE, TIMECOLUMNNAME, TIMERANGE, PATNOCOLUMNNAME, DBLINK)

values ('1', null, '病人入科', '', '', 1, '', 'QCTIME\_INPATIENT', 'status', '1501', 'inwarddate', null, 'noofinpat', 'EMRDB');

insert into qccondition (CODE, CATEGORY, DESCRIPTION, CONDITION, TIMEINSTALL, VALID, MEMO, TABLENAME,

COLUMNNAME, COLUMNVALUE, TIMECOLUMNNAME, TIMERANGE, PATNOCOLUMNNAME, DBLINK)

values ('2', null, '病人转科', '', '', 1, '', 'QCTIME\_INPATIENT', 'status', '1507', 'changedeptdatetime', null, 'noofinpat', 'EMRDB');

insert into qccondition (CODE, CATEGORY, DESCRIPTION, CONDITION, TIMEINSTALL, VALID, MEMO, TABLENAME,

COLUMNNAME, COLUMNVALUE, TIMECOLUMNNAME, TIMERANGE, PATNOCOLUMNNAME, DBLINK)

values ('3', null, '病人出院', '', '', 1, '', 'QCTIME\_INPATIENT', 'status', '1502', 'outhosdate', 2592000, 'noofinpat', 'EMRDB');

insert into qccondition (CODE, CATEGORY, DESCRIPTION, CONDITION, TIMEINSTALL, VALID, MEMO, TABLENAME,

COLUMNNAME, COLUMNVALUE, TIMECOLUMNNAME, TIMERANGE, PATNOCOLUMNNAME, DBLINK)

values ('4', null, '病人死亡', '', '', 1, '', 'QCTIME\_INPATIENT', 'isdeath', '1', 'deathdatetime', 2592000, 'noofinpat', 'EMRDB');

-----qcrule

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('1', '1', '', '病人入科24小时内书写入院记录', '提醒：病人入科24小时内需要书写入院记录',

'警告：病人入科24小时内未书写入院记录', 86400.0000, '', null, 0, 0, 0.0000, 2002, '1', 1, '', 0, 2.0000, 'B01');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('2', '1', '', '病人入科8小时内书写首次病程', '提醒：病人入科8小时内需要书写首次病程',

'警告：病人入科8小时内未书写首次病程', 28800.0000, '', null, 0, 0, 0.0000, 2002, '2', 1, '', 0, 3.0000, 'C01');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('3', '1', '', '病人入科每3天书写一次病程记录', '提醒：病人入科每3天需要书写一次病程记录',

'警告：病人入科每3天未书写一次病程记录', 259200.0000, '', null, 2, 0, 25920.0000, 2002, '3', 1, '', 0, 4.0000, 'C26');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('4', '1', '', '病人入科每30天书写一次阶段小结', '提醒：病人入科每30天需要书写一次阶段小结',

'警告：病人入科每30天未书写一次阶段小结', 2592000.0000, '', null, 2, 0, 2592000.0000, 2002, '3', 1, '', 0, 5.0000, 'C11');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('5', '1', '', '病人入科48小时内书写主治医师首次查房记录', '提醒：病人入科48小时内书写主治医师首次查房记录',

'警告：病人入科48小时内书写主治医师首次查房记录', 172800.0000, '', null, 0, 0, 0.0000, 2002, '3', 1, '', 0, 6.0000, 'C061');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('6', '1', '', '病人入科每7天书写一次主治医师查房记录', '提醒：病人入科每7天需要书写一次主治医师查房记录',

'警告：病人入科每7天未书写一次主治医师查房记录', 604800.0000, '', null, 2, 0, 604800.0000, 2004, '3', 1, '', 0, 7.0000, 'C37');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('7', '1', '', '病人入科48小时内书写主任医师首次查房记录', '提醒：病人入科48小时内需要书写主任医师首次查房记录',

'警告：病人入科48小时内未书写主任医师首次查房记录', 172800.0000, '', null, 0, 0, 172800.0000, 2002, '3', 1, '', 0, 8.0000, 'C06');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('8', '1', '', '病人入科每30天书写一次主任医师查房记录', '提醒：病人入科每30天需要书写一次主任医师查房记录',

'警告：病人入科每30天未书写一次主任医师查房记录', 2592000.0000, '', null, 2, 0, 2592000.0000, 2002, '3', 1, '', 0, 9.0000, 'C38');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('9', '2', '', '病人转科24小时内书写转出记录', '提醒：病人转科24小时内需要书写转出记录',

'警告：病人转科24小时内未书写转出记录', 86400.0000, '', null, 0, 0, 0.0000, 2002, '3', 1, '', 0, 10.0000, 'C09');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('10', '2', '', '病人转科24小时内书写转入记录', '提醒：病人转科24小时内需要书写转入记录',

'警告：病人转科24小时内未书写转入记录', 86400.0000, '', null, 0, 0, 0.0000, 2002, '3', 1, '', 0, 12.0000, 'C10');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('11', '3', '', '病人出院24小时内书写出院记录', '提醒：病人出院24小时内需要书写出院记录',

'警告：病人出院24小时内未书写出院记录', 86400.0000, '', null, 0, 0, 0.0000, 2002, '5', 1, '', 0, 11.0000, 'C20');

insert into qcrule (RULECODE, CONDITIONCODE, RESULTCODE, DESCRIPTION, REMINDER, FOULMESSAGE, TIMELIMIT, RELATEDRULE,

RELATEDMARK, MARK, CYCLETIMES, CYCLEINTERVAL, DOCOTORLEVEL, SORTCODE, VALID, MEMO, DELAYTIME, SCORE, QCCODE)

values ('12', '4', '', '病人死亡后24小时内书写死亡记录', '提醒：病人死亡24小时内需要书写死亡记录',

'警告：病人死亡24小时内未书写死亡记录', 86400.0000, '', null, 0, 0, 0.0000, 2002, '3', 1, '', 0, 13.0000, 'C21');

commit;

1. **修改病历模板对应的监控代码**

--B01 入院记录-------------------病人入科24小时内书写入院记录

--C01 首次病程-------------------病人入科8小时内书写首次病程

--C26 常规病程记录---------------病人每住院72小时内书写病程记录

--C11 阶段小结-------------------病人入科至少每720小时内书写阶段小结

--C061 上级主治医生首次查房记录---病人入科48小时内书写主治医师首次查房记录

--C37 书写主治医师查房记录-------病人入科每7天书写一次主治医师查房记录

--C06 首次上级主任查房记录-------病人入科48小时内书写主任医师首次查房记录

--C38 书写主任医师查房记录-------病人入科每月书写一次主任医师查房记录

--C09 转出记录-------------------病人转科24小时内书写转出记录

--C10 转入记录-------------------病人转科24小时内书写转入记录

--C20 出院记录-------------------出院24小时内书写出院记录

--C21 死亡记录-------------------死亡后24小时内书写死亡记录

--修改病历对应的监控代码，由于根据名称进行筛选，导致会出现筛选不准确的问题，需要实施在模板工厂中进行排查

update emrtemplet e set e.qc\_code = 'B01' where e.mr\_name like '%入院记录%';

update emrtemplet e set e.qc\_code = 'C01' where e.mr\_name like '%首次病程%' and e.mr\_name not like '%术后%';

update emrtemplet e set e.qc\_code = 'C26' where e.mr\_name like '%日常病程%' and e.mr\_name not like '%手术%'

and e.mr\_name not like '%术后%';

update emrtemplet e set e.qc\_code = 'C11' where e.mr\_name like '%阶段小结%';

update emrtemplet e set e.qc\_code = 'C061' where e.mr\_name like '%主治%' and e.mr\_name like '%查房%'

and e.mr\_name like '%首次%';

update emrtemplet e set e.qc\_code = 'C37' where e.mr\_name like '%主治%' and e.mr\_name like '%查房%'

and e.mr\_name not like '%首次%';

update emrtemplet e set e.qc\_code = 'C06' where e.mr\_name like '%主任%' and e.mr\_name like '%查房%'

and e.mr\_name like '%首次%' and e.mr\_name not like '%主治%';

update emrtemplet e set e.qc\_code = 'C38' where e.mr\_name like '%主任%' and e.mr\_name like '%查房%'

and e.mr\_name not like '%首次%' and e.mr\_name not like '%主治%';

update emrtemplet e set e.qc\_code = 'C09' where e.mr\_name like '%转出%';

update emrtemplet e set e.qc\_code = 'C10' where e.mr\_name like '%转入%';

update emrtemplet e set e.qc\_code = 'C20' where e.mr\_name like '%出院%';

update emrtemplet e set e.qc\_code = 'C21' where e.mr\_name like '%死亡%';

commit;

1. **创建QCRule表对应的序列**

CREATE SEQUENCE "YIDANDBA"."SEQ\_QCRULECODE" MINVALUE 1 MAXVALUE 999999999999 INCREMENT BY 1 START WITH 20 CACHE 20 NOORDER NOCYCLE ;

1. **OracleRun文件夹中File.Menu文件的修改**



改为：



1. **病历时限新模块切换**

update job2permission

set moduleid = 'YidanSoft.Emr.QCTimeLimit.QCControlUse.QCTimeConfig\_YidanSoft.Emr.QCTimeLimit.dll'

where moduleid = 'YidanSoft.Core.TimeLimitQC.FormTimeQCInfo\_YidanSoft.Core.TimeLimitQC.dll';

commit;

1. **~~删除原先系统中调用旧模块的代码~~**
2. **修改数据同步中的配置文件DataSynchConfig.xml，开放病历时限的节点**
3. **开启自动同步数据的服务YidanJobService**