

Database Queries



Running database searches / queries in OSCAR

This tutorial describes how to upload and run a variety of search templates

This enables you to mine your OSCAR SQL database for information



As with many good things, this story starts at the excellent and resourceful www.oscarcanada.org website. Check it out!

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 - OSCARA (OSCAR hardware)
 - CAISI (OSCAR Integration)

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OSCAR is a Suite of Applications which serve to enhance the health and social service community's ability to provide the highest level of care.

All OSCAR applications are built in free [open source](#) software, which means you are free to download the program, use the program, or modify it.

- OSCAR Electronic Medical Record (EMR)** has full billing capabilities, chronic disease management tools, prescription module, scheduling and many other features. OSCAR can run locally in an office or be accessed over the internet.
- MyOSCAR** is a patient controlled personal health record that integrates with the OSCAR EMR.
- MyDrugRef** is a "social-network" for pharmacists and physicians to facilitate "knowledge transfer" of drug information and is fully integrated with the OSCAR EMR.
- OSCAR CAISI** is a national, award winning, full featured Case Management, Bed Management, and Program/Facility Management system, used by many leading Agencies and Residential Programs in Toronto, Hamilton, and Ottawa. This OSCAR partnership won the 2007 Silver Award of Excellence in the Efficiency & Operational Improvements from [CIPA Canadian Information Productivity Awards](#)

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Search

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All OSCAR applications are built in free **open source** software, which means you are

- OSCAR** is a suite of applications designed to support the needs of patients with chronic diseases, chronic conditions, and many other health issues. OSCAR can run locally in an office or be accessed over the internet.
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Click on the "Information for OSCAR Users" link

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 - QBE
 - Server Backup Strategies
 - OSCAR Server Maintenance Scripts

EMR and Case Management Resources for Users

This is where you will find resources shared by other OSCAR Users. Report templates, Query by example, measurement tools, and other resources may be found separately under "Users groups".

EMR and Case Management Resources

- [eForms](#)
- [Templates](#)
- [Report templates](#)
- [Query by example](#)
- [Server backup strategies](#)
- [OSCAR Server Maintenance Scripts](#)

Report templates

Blogs

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 - Report Patients with an email address
 - Measurement values (yes/no)
- Billing Report

Prescription Report Templates

Title	Type
Drug Use Report	Page
Drug Report by Age	Page

Send this Print this

Let's have closer look at this one

Blogs

- OSCAR Canada blog
- OSCAR PEI
- OSCAR Alberta
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Listservs

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OSCAR users- please

File Edit View History Bookmarks Tools Help | http://oscarca

Drug Report by Age — OSCAR C...

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 - Billing Report Templates

Drug Report by Age

Reports patients by prescribed drug name, age and rx_date

```
<report title="Drug Report by Patient Age" description="Reports patients by prescribed drug name, age and rx_date">
  <query>
    select dr.demographic_no, dr.BN, dr.special, de.last_name, de.first_name, de.sex, concat(
      datediff(now(), concat(year_of_birth, '-', month_of_birth, '-', date_of_birth))/365 as Age,
      from provider pr where pr.provider_no = de.provider_no) as Provider, concat(pr.first_name,
      from drugs dr, demographic de, provider pr where dr.demographic_no = de.demographic_no and
      and ( BN like '%{drugname}%' )
      and datediff(now(), concat(year_of_birth, '-', month_of_birth, '-', date_of_birth))/365 >=
      and rx_date > '{rx_date}' order by last_name, provider_no;</query>
  <param id="drugname" type="text" description="Drugname keyword">
  </param>
  <param id="rx_date" type="date" description="Rx Date (From date)">
  </param>
  <param id="age" type="text" description="Age of Population (From age)">
  </param>
</report>
```

Done

XML code. We need to upload this into our OSCAR installation



Navigation

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 - Billing Report Templates

Drug Report by Age

Reports patients by prescribed drug name, age and rx_date

```
<report title="Drug Report by Patient Age" description="Reports patients by prescribed drug name" >
  <query>
    select dr.demographic_no, dr.BN, dr.special, de.last_name, de.first_name, de.sex, concat(year_of_birth, '-', month_of_birth, '-', date_of_birth)/365 as Age,
    from provider pr where pr.provider_no = de.provider_no) as Provider, concat(pr.first_name, '
    from drugs dr, demographic de, provider pr where dr.demographic_no = de.demographic_no and
    and ( BN like '%{drugname}%' )
    and datediff(now(), concat(year_of_birth, '-', month_of_birth, '-', date_of_birth))/365 >=
    and rx_date > '{rx_date}' order by last_name, provider_no;</query>
  <param id="drugname" type="text" description="Drugname keyword">
  </param>
  <param id="rx_date" type="date" description="Rx Date (From date)">
  </param>
  <param id="age" type="text" description="Age of Population (From age)">
  </param>
</report>
```

The easiest way to do this is to simply select the text of the query script and to copy it to the clipboard (CTRL + C)

```
File Edit View Search Tools Documents Help
Open Save Undo
*Unsaved Document 1
<report title="Drug Report by Patient Age" description="Reports patients by prescribed drug
name, age and rx_date" active="1">
  <query>
    select dr.demographic_no, dr.BN, dr.special, de.last_name, de.first_name, de.sex, concat
(year_of_birth, '-', month_of_birth, '-', date_of_birth) as DOB,
    datediff(now(), concat(year_of_birth, '-', month_of_birth, '-', date_of_birth))/365 as Age,
de.provider_no, (select concat(pr.first_name, ' ', pr.last_name)
    from provider pr where pr.provider_no = de.provider_no) as Provider, concat(pr.first_name, '
', pr.last_name) as Prescriber
    from drugs dr, demographic de, provider pr where dr.demographic_no = de.demographic_no and
dr.provider_no = pr.provider_no
    and ( BN like '%{drugname}%')
    and datediff(now(), concat(year_of_birth, '-', month_of_birth, '-', date_of_birth))/365 >=
{age}
    and rx_date > '{rx_date}' order by last_name, provider_no;</query>
  <param id="drugname" type="text" description="Drugname keyword">
  </param>
  <param id="rx_date" type="date" description="Rx Date (From date)">
  </param>
  <param id="age" type="text" description="Age of Population (From age)">
  </param>
</report>
```

Now open the text editor of your choice (such as Notepad or Gedit) and paste the code into this (CTRL + V for paste). Then do a "save as", give it a name, any name, and save to your desktop

LOGIN

User Name:

Password:

2nd Level Passcode:

for external Wide Area Network access

Most browsers will probably work with OSCAR but the development team has been primarily using the latest versions of Firefox and Internet Explorer. The user interface assumes that the resolution of the screen is at least 1024x768.

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Medical Clinic



River City Medical Clinic

Now it is time for us to log into our OSCAR and import the query template we just saved

08:00	
08:05	
08:10	
08:15	
08:20	
08:25	
08:30	
08:35	
08:40	
08:45	
08:50	
08:55	
09:00	
09:05	
09:10	
09:15	
09:20	
09:25	
09:30	
09:35	
09:40	
09:45	
09:50	
09:55	
10:00	1
10:05	1
10:10	1
10:15	1
10:20	1
10:25	1
10:30	1

Click on the Admin tab

Manage Reports
MSP Reconciliation Reports
Accounting Reports
Edit Invoices
Settle Over/Under paid Claims

Resource

Base URL Setting

oscarReport

Query By Example
Report by Template
Age-Sex Report
Visit Report
PCN Catchment Report
Flu Billing Report
Overnight Batch Eligibility Checking
Surveillance Report
Rehab Study
Export Patient List by Appointment Time
Link Tracking Report
Activity Report
Provider Service Report
Population Report

Click on "Report by Template" to call up your library of search templates

oscarBackup

oscarDatabase/Document Download

oscarMessenger

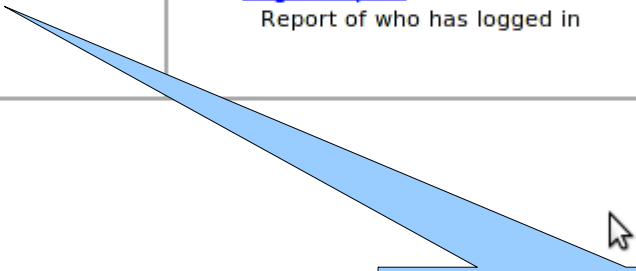
Messages
Messenger Group Admin

E-Forms

Upload a Form
Upload an Image
Form Groups

oscarEncounter

Report	Report By Template
<p>Select a template:</p> <p>Main Page</p> <ol style="list-style-type: none">BlankBC Billing Code Search by PhysicianWorkload2Diagnosis by ProviderDaily Billing SummaryDrug ReportVisit Report-FemaleLogin Report <p>Add Template</p>	<p>Report By Template</p> <p>Select a template:</p> <ol style="list-style-type: none">Blank BlankBC Billing Code Search by Physician Pt list of services provided by specific physicians between datesWorkload2 Workload measures of scheduled patients by providerDiagnosis by Provider List of Patients with particular diagnosis sorted by physicianDaily Billing Summary List of billings with PHN, referral doctor by dateDrug Report Reports patients by prescribed drug name and rx_dateVisit Report-Female Report on Female Patient VisitsLogin Report Report of who has logged in



Click on "Add Template"

Report

Report by Template

Select a template:

[Main Page](#)

1. [Blank](#)
2. [BC Billing Code Search by Physician](#)
3. [Workload2](#)
4. [Diagnosis by Provider](#)
5. [Daily Billing Summary](#)
6. [Drug Report](#)
7. [Visit Report-Female](#)
8. [Login Report](#)

[Add Template](#)

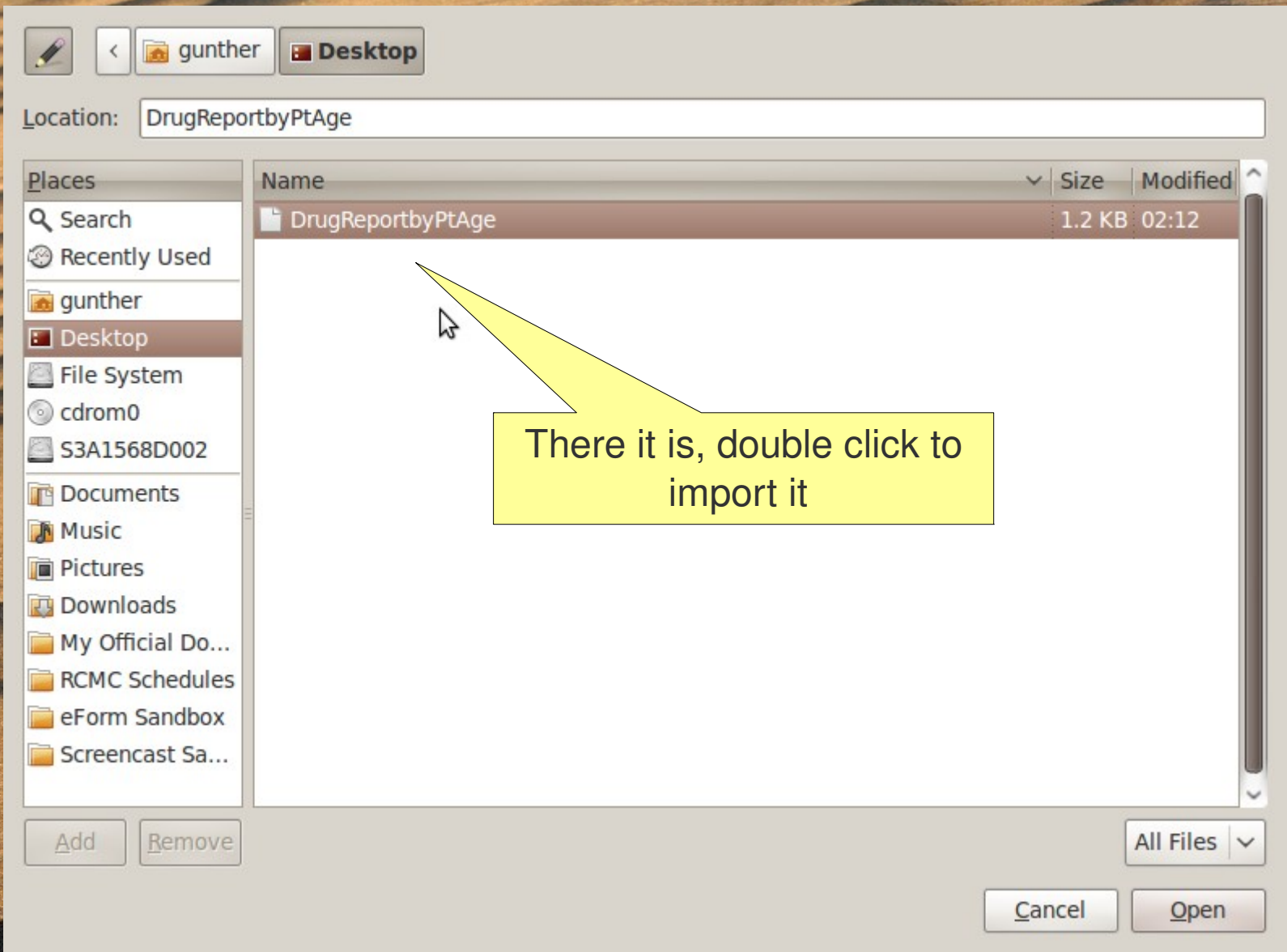
Add Template

Upload Templates:

Now browse to your desktop and find the text file you saved earlier

Done





gunther

Desktop

Location: DrugReportbyPtAge

- Places
- Search
 - Recently Used
 - gunther
 - Desktop
 - File System
 - cdrom0
 - S3A1568D002
 - Documents
 - Music
 - Pictures
 - Downloads
 - My Official Do...
 - RCMC Schedules
 - eForm Sandbox
 - Screencast Sa...

Name	Size	Modified
DrugReportbyPtAge	1.2 KB	02:12

There it is, double click to import it

Add Remove

All Files

Cancel

Open

Report

Report by Template

Select a template:

Main Page

1. [Blank](#)
2. [BC Billing Code Search by Physician](#)
3. [Workload2](#)
4. [Diagnosis by Provider](#)
5. [Daily Billing Summary](#)
6. [Drug Report](#)
7. [Visit Report-Female](#)
8. [Login Report](#)

[Add Template](#)

Add Template

Upload Templates:



Upload & Add

Done



Report	Report By Template
<p>Select a template:</p> <p>Main Page</p> <ol style="list-style-type: none">BlankBC Billing Code Search by PhysicianWorkload2Diagnosis by ProviderDaily Billing SummaryDrug ReportVisit Report-FemaleLogin ReportDrug Report by Patient Age <p>Add Template</p>	<h3>Report By Template</h3> <p>Select a template:</p> <ol style="list-style-type: none">Blank BlankBC Billing Code Search by Physician Pt list of services provided by specific physicians between datesWorkload2 Workload measures of scheduled patients by providerDiagnosis by Provider List of Patients with particular diagnosis sorted by physicianDaily Billing Summary List of billings with PHN, referral doctor by dateDrug Report Reports patients by prescribed drug name and rx_dateVisit Report-Female Report on Female Patient VisitsLogin Report Report of who has logged inDrug Report by Patient Age Reports patients by prescribed drug name, age and rx_date

So let's have a look at the query template we just uploaded

Report	Report By Template								
Select a template: Main Page 1. Blank 2. BC Billing Code Search by Physician 3. Workload2 4. Diagnosis by Provider 5. Daily Billing Summary 6. Drug Report 7. Visit Report-Female 8. Login Report 9. Drug Report by Patient Age Add Template	Drug Report by Patient Age Reports patients by prescribed drug name, age and rx_date <table border="1"><tr><td>Step 1: Drugname keyword</td><td><input type="text" value="eprex"/></td></tr><tr><td>Step 2: Rx Date (From date)</td><td><input type="text" value="2010-01-01"/> </td></tr><tr><td>Step 3: Age of Population (From age)</td><td><input type="text" value="15"/></td></tr><tr><td>Step 4: Generate Query</td><td><input type="button" value="Run Query"/></td></tr></table> Show/Hide Options	Step 1: Drugname keyword	<input type="text" value="eprex"/>	Step 2: Rx Date (From date)	<input type="text" value="2010-01-01"/>	Step 3: Age of Population (From age)	<input type="text" value="15"/>	Step 4: Generate Query	<input type="button" value="Run Query"/>
Step 1: Drugname keyword	<input type="text" value="eprex"/>								
Step 2: Rx Date (From date)	<input type="text" value="2010-01-01"/>								
Step 3: Age of Population (From age)	<input type="text" value="15"/>								
Step 4: Generate Query	<input type="button" value="Run Query"/>								

Think of an interesting prescription you have issued, fill out the 'from' date and the minimum age of the population you want to search

Report Report by Template

Drug Report by Patient Age
 Reports patients by prescribed drug name, age and rx_date
[Hide/Show Query](#)

demographic_no	BN	special	last_name	first_name	sex	DOB	Age	provider_no	Provider	Prescriber
49292	EPREX STERILE SOLUTION 10000IU/1.0ML	EPREX STERILE SOLUTION 10000IU/1.0ML Take 1 mL IM Q1Week for 3Months Qty:13 Repeats:3	CULLEN	EDWARD	M	1993-04-19	16.9397	101	Gunther Klein	Gunther Klein

In this case I got only one result, from a test patient. If you were to search for a more widely used medication results will reflect this of course. The output can be exported in csv format to a spreadsheet

That was just one example of a database search/query

This functionality has many other applications of course, such as:
Generate a list of patients assigned a specific diagnostic code (e.g. diabetes):

```
<report title="Diagnosis by Provider" description="List of Patients with particular diagnosis sorted by physician" active="1">
<query>

select last_name,first_name,service_date, provider_no from billingmaster, demographic where billingmaster.demographic_no =
demographic.demographic_no and dx_code1 in ({dx_code}) and provider_no in({multi_field})and service_date >= '{start}' and service_date <=
'{finish}' order by service_date;

</query>
<param id="dx_code" type="textlist" description="A valid ICD9 code used in billing ">
  </param>
<param id="multi_field" type="textlist" description="A comma-separated list of provider numbers, from Admin, Provider record ">
  </param>
<param id="start" type="text" description="Service Date From yyymmdd">
  </param>
<param id="finish" type="text" description="Service Date To yyymmdd">
  </param>

</report>
```

Generate a list of patients assigned a specific fee code (BC specific):

```
<report title="BC Billing Code Search by Physician" description="Pt list of services provided by specific physicians between dates" active="1">
```

```
<query>
```

```
select last_name,first_name,service_date from billingmaster, demographic where billingmaster.demographic_no = demographic.demographic_no and billing_code in ({billing_code}) and provider_no in({multi_field})and (service_date >= '{start}')order by service_date;
```

```
</query>
```

```
<param id="billing_code" type="textlist" description="A valid five digit MSP service code used in billing ">
```

```
</param>
```

```
<param id="multi_field" type="textlist" description="A comma-separated list of provider numbers, from Admin, Provider record ">
```

```
</param>
```

```
<param id="start" type="text" description="Service Date From yyyyymmdd">
```

```
</param>
```

```
</report>
```

Generate a list of which users have logged into the system, and when.

```
<report title="Login Report" description="Report of who has logged in" active="1">
<query>
select user_name, b_ExpireSet as `Date Exp Enabled` , date_ExpireDate as `Expire Date` , b_LocalLockSet as `Needs PIN for
local` , b_RemoteLockSet as `Needs PIN for remote` , max(log.dateTime) as `last login` from security, log where
security.provider_no = log.provider_no and log.content = 'login' group by log.provider_no order by `last login` desc;</query>

</report>
```

Generate workload reports per specific providers over a date range:

```
<report title="Workload2" description="Workload measures of scheduled patients by provider" active="1">
<query>
Select p.last_name as Provider, count(*) as 'Patients Booked',
round(sum((end_time-start_time)/100)/60,1) as 'Hours Seen',
round(count(*)/(sum((end_time-start_time)/100)/60),2) as "Patients
Hourly"
From provider p, appointment a
where p.provider_no=a.provider_no
and a.status<>'C'
and a.appointment_date>='{billing_date_start}'
and a.appointment_date<='{billing_date_end}'
and a.demographic_no<>0
group by p.last_name;
</query>
<param id="billing_date_start" type="date" description="Billing date start"> </param> <param id="billing_date_end" type="date"
description="Billing date end"> </param>
</report>
```

Generate a list of female patient seen during a specific date range, filtered further by fee code:

```
<report title="Visit Report-Female" description="Report on Female Patient Visits" active="1">
<query>
select last_name,first_name,provider_no,billing_code,service_date from billingmaster, demographic where
billingmaster.demographic_no = demographic.demographic_no and sex = 'F' and billing_code in ({multi_field}) and (service_date
>='{service_date}') order by service_date;</query>

  <param id="multi_field" type="textlist" description="Enter Valid MSP 5digit service code)">
  </param>
<param id="service_date" type="text" description="Start Date yyyyymmdd">
</param>

</report>
```

The “Diagnosis by Provider” report allows you to generate a list of patients assigned to a specific provider filtered by diagnosis, such as DM (250) or HT (401).

```
<report title="Diagnosis by Provider" description="List of Patients with particular diagnosis sorted by physician" active="1">  
<query>
```

```
select last_name,first_name,service_date, provider_no from billingmaster, demographic where billingmaster.demographic_no =  
demographic.demographic_no and dx_code1 in ({dx_code}) and provider_no in({multi_field})and service_date >= '{start}' and  
service_date <= '{finish}' order by service_date;
```

```
</query>
```

```
<param id="dx_code" type="textlist" description="A valid ICD9 code used in billing ">
```

```
</param>
```

```
<param id="multi_field" type="textlist" description="A comma-separated list of provider numbers, from Admin, Provider record ">
```

```
</param>
```

```
<param id="start" type="text" description="Service Date From yyyyymmdd">
```

```
</param>
```

```
<param id="finish" type="text" description="Service Date To yyyyymmdd">
```

```
</param>
```

```
</report>
```