



U. PORTO UNIVERSIDADE DO PORTO



I Can't buy ARC

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Agenda



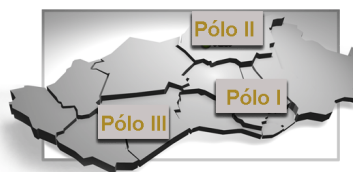
- Introduction to the University
- Aleph installation.
- Statistics from ALEPH
 - Current situation
 - Motivation to change
 - Developments in Statistics Custom Services

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The University of Porto



- University of Porto Campus has 3 distinct areas.
 - 14 Faculties
 - 1 Business School
 - 69 investigation units
 - 30 libraries



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ALEPH in University of Porto



- We give support to 27 physical libraries with different geographic locations in Porto or in neighbour cities.
- 124 ALEPH Staff accounts to manage
- Actually, in ALEPH, we have 4 bibliographic libraries and 16 administrative libraries

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What we use to do?



- Librarians request statistics by e-mail
- Technical staff write an SQL script
- The results of SQL are sent to the librarian
- The SQL script is stored in a folder to be reused

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Motivation to change



- We lost too much time getting statistics
- Sometimes data was out of time
- Difficulties managing the scripts
- Librarians don't have autonomy

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Statistics from ALEPH



- ARC, according to our local distributor, is the only system to get statistics from ALEPH
- Our institution can't afford it
- Our librarians need statistics to manage libraries

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Knowledge to change



- The presentation “How to make a home made custom service” by Yoel Kortick.
- We already have the SQL scripts
- We only need to combine this knowledge

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Statistics Custom Services



- Store SQL files in ALEPH server

```
catalogo.up.pt-a18(1) >>cd /exlibris/statistics/services/
catalogo.up.pt-a18(1) >>ll
total 120
-rw-rw-r-- 1 aleph exlibris 822 Aug 18 17:14 stat_cat_inv_material.sql
-rw-rw-r-- 1 aleph exlibris 1450 Aug 4 14:50 stat_circ_doc_history.sql
-rw-rw-r-- 1 aleph exlibris 1436 Aug 21 16:38 stat_circ_doc_history_tmp.sql
-rw-rw-r-- 1 aleph exlibris 1212 Aug 4 16:43 stat_circ_doc_loan_month.sql
-rw-rw-r-- 1 aleph exlibris 1263 Aug 4 15:05 stat_circ_doc_loan_year.sql
-rw-rw-r-- 1 aleph exlibris 1100 Jul 30 16:02 stat_circ_doc_mov_mes.sql
-rw-rw-r-- 1 aleph exlibris 1163 Aug 5 16:25 stat_circ_doc_mov_operator.sql
-rw-rw-r-- 1 aleph exlibris 1784 Jul 30 15:54 stat_circ_doc_overdue.sql
-rw-rw-r-- 1 aleph exlibris 1782 Jul 29 11:51 stat_circ_doc_overdue.sql.20090729
-rw-rw-r-- 1 aleph exlibris 1768 Aug 20 14:34 stat_circ_doc_overdue_tmp.sql
-rw-rw-r-- 1 aleph exlibris 1423 Aug 4 16:59 stat_circ_doc_overdue_year.sql
-rw-rw-r-- 1 aleph exlibris 1195 Jul 29 14:14 stat_circ_doc_plus_loan.sql
-rw-rw-r-- 1 aleph exlibris 868 Jul 14 15:43 stat_circ_doc_plus_loan.sql.20090714
-rw-rw-r-- 1 aleph exlibris 1175 Sep 2 18:25 stat_circ_doc_plus_loan_tmp.sql
-rw-rw-r-- 1 aleph exlibris 1070 Jul 31 14:50 stat_circ_doc_transit.sql
catalogo.up.pt-a18(1) >>
```

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- Generate report in HTML

– To generate a report in HTML from SQLPlus use
“MARKUP HTML ON”

```
SET MARKUP HTML ON SPOOL ON ENTMAP ON -
HEAD "<TITLE>Department Report</TITLE>" -
<STYLE type='text/css'> -
<!-- BODY (background: #FFFFFF) --> -
</STYLE>" -
BODY "TEXT=#0000FF" -
TABLE "WIDTH='90%' BORDER='2'"
COLUMN Titulo HEADING 'Titulo' ENTMAP OFF
COLUMN Ocorrencias HEADING 'Ocorrências'
```

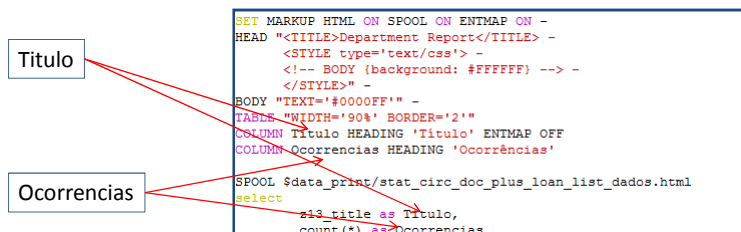
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- Generate report in HTML
 - The number and name of columns must be the same of the SQL query



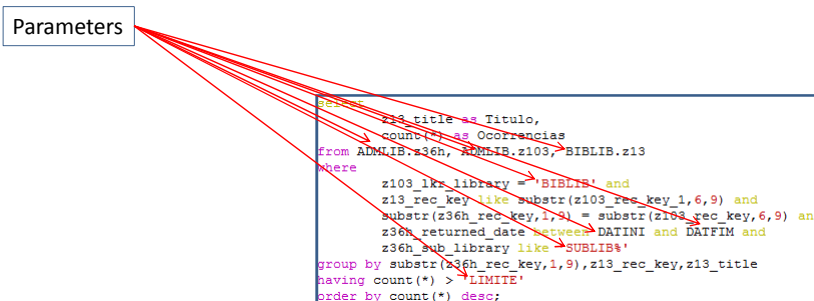
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- The variables used in SQL will be replaced with the values sent by the service, with the same name.



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- Now, we need to create the aleph script, which will be run by the service.
- Those scripts must be stored under \$aleph_proc directory

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- The ALEPH script

```

source $aleph_proc/def_local_env }
start_p_generic_proc
set SUBLIB = "$p1"
set DATINI = "$p2"
set DATFIM = "$p3"
set LIMITE = "$p4"
set EMAIL = "$p5"
set ASSUNTO = "$p6"
set lower_lib = `echo $p_active_library | aleph_tr -l`
set script_directory = /exlibris/statistics/services
  
```

Mandatory lines

Parameters from service

Parameters for script

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- The ALEPH script

Parameters for LOG service

```

echo "*****"
echo "Variáveis usadas para executar a rotina:"
echo "Base Bibliográfica: " $BIBLIB
echo "Sub Biblioteca Administrativa: " $SUBLIB
echo "Data de Início: " $DAIINI
echo "Data de Fim: " $DAIFIM
echo "Limite de Empréstimos: " $LIMITE
echo "Active library: " $p_active_library
echo "The lowercase active library is: " $lower_lib
  
```

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- The ALEPH script

Verify if e-mail was entered

```

if ($email_exist == 1) then
  echo "Email address: " $EMAIL
else
  echo "Email address: não foi inserido endereço de mail"
endif
  
```

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- The ALEPH script

Retrieve library-relation parameters

```
# Verifica qual a base bibliografica com que esta relacionada na tabela library_relation
set BIBLIB = `echo | grep "BIB ""$p_active_library" $alephe_tab/library_relation | awk ' { print substr($3,1,5)}'`
set MYMAIL = `echo | grep "www_feedback_email_address" $alephe_root/www_server.conf | awk ' { print substr($3,1,50)}'`
```

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- The ALEPH script

```
#### Rotina para executar o script para todas as sub-bibliotecas
if ($SUBLIB == '') then
  echo "#### now in beginning of section if SUBLIB == ALL"
  cat $script_directory/stat_circ_doc_plus_loan.sql | \
  sed "s/BIBLIB/$BIBLIB/" | \
  sed "s/ADMLIB/$p_active_library/g" | \
  sed "s/SUBLIB/" | \
  sed "s/DATINI/$DATINI/" | \
  sed "s/DATFIM/$DATFIM/" | \
  sed "s/LIMITE/$LIMITE/" > $script_directory/stat_circ_doc_plus_loan_tmp.sql
  sqlplus $lower_lib/$lower_lib @$script_directory/stat_circ_doc_plus_loan_tmp
  echo "#### now in end of section if SUBLIB == ALL"
endif
```

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- The ALEPH script

```
##### Rotina para executar o script para uma sub-biblioteca
if ($SUBLIB != '') then
  echo "#### now in beginning of section if SUBLIB == ALL"
  cat $script_directory/stat_circ_doc_plus_loan.sql | \
  sed "s/BIBLIB/$BIBLIB/" | \
  sed "s/ADMLIB/$p_active_library/g" | \
  sed "s/SUBLIB/$SUBLIB/" | \
  sed "s/DATINI/$DATINI/" | \
  sed "s/DATFIM/$DATFIM/" | \
  sed "s/LIMITE/$LIMITE/" > $script_directory/stat_circ_doc_plus_loan_tmp.sql
  sqlplus $lower_lib/$lower_lib @$script_directory/stat_circ_doc_plus_loan_tmp
  echo "#### now in end of section if SUBLIB == $SUBLIB"
endif
```

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- The ALEPH script

```
##### Script para a ser usado pelo aplicativo $script_directory/stat_circ_doc_plus_loan
--Dados recebidos:
--Base BIB:          BIBLIB
--Base ADM:          ADMLIB
--sub Biblioteca ADM: SUBLIB
--Data Inicio:       DATINI
--Data Fim:          DATFIM
--Limite Emprestimos: LIMITE
SET FEEDBACK OFF
SET PAUSE OFF
SET PAGESIZE 9999
SET MARKUP HTML ON SPOOL ON ENTMAP ON
HEAD <TITLE>Department Report</TITLE> -
      <TITLE Supra='text/css' > -
      <!-- BODY (background: #FFFFFF) --> -
      </STYLE> -
BODY TEXT='#####' -
TABLE "WIDTH='90%' BORDER='1'"
COLUMN Titulo HEADING 'Titulo' ENTMAP OFF
COLUMN Ocorrencias HEADING 'Ocorrencias'
SPOOL $data_print/stat_circ_doc_plus_loan_list_dados.html
select
| z13_title as Titulo,
| count(*) as Ocorrencias
from ADMLIB.z36h, ADMLIB.z103, BIBLIB.z13
where
| z103_lkr_library = 'BIBLIB' and
| z13_rec_key like substr(z103_rec_key,1,6,9) and
| substr(z36h_rec_key,1,9) = substr(z103_rec_key,6,9) and
| z36h_returned_date between DATINI and DATFIM and
| z36h_sub_library like 'SUBLIB'
group by substr(z36h_rec_key,1,9),z13_rec_key,z13_title
having count(*) > 'LIMITE'
order by count(*) desc;
SPOOL OFF
EXIT
```

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- The ALEPH script

```

# Este Script está a ser usado pelo ficheiro faleph_proc/p_stat_circ_doc_plus_loan
--Dados recebidos:
--Base BIZ: UF801
--Base ADM: UF850
--sub Biblioteca ADM: 20090331
--Data Inicio: 20090902
--Data Fim: 20090902
--Limite Emprestimos: 2
SET FEEDBACK OFF
SET PAUSE OFF
SET PAGESIZE 9999
SET MARKUP HTML ON SPOOL ON ENTMAP ON -
HEAD "<TITLE>Department Report</TITLE> -
<STYLE type='text/css'> -
<!-- BODY (background: #FFFFFF) --> -
</STYLE> -
BODY "TEXT"=#0000FF" -
TABLE "TITLE"=ON BORDER="1"
COLUMN Titulo HEADING "Título" ENTMAP OFF
COLUMN Ocorrencias HEADING "Ocorrências"

SPOOL $data_print/stat_circ_doc_plus_loan_list_dados.html
select
  z13_title as Titulo,
  count(*) as Ocorrencias
from UF850.z36h, UF850.z103, UF801.z13
where
  z103_lkr_library = 'UF801' and
  z13_rec_key like substr(z103_rec_key,1,6,9) and
  substr(z36h_rec_key,1,9) = substr(z103_rec_key,6,9) and
  z36h_returned_date between 20090331 and 20090902 and
  z36h_sub_library like '%'
group by substr(z36h_rec_key,1,9),z13_rec_key,z13_title
having count(*) > '2'
SPOOL OFF
EXIT

```

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- The ALEPH script

```

#### Envia mail
if ($email_existe == 1) then
  echo "TO: $EMAIL" > $data_print/stat_circ_doc_plus_loan_list.html
  echo "Subject: $ASSUNTO" >> $data_print/stat_circ_doc_plus_loan_list.html
  echo "Content-Type: text/html; charset="UTF-8"" >> $data_print/stat_circ_doc_plus_loan_list.html
  cat $data_print/stat_circ_doc_plus_loan_list_dados.html >> $data_print/stat_circ_doc_plus_loan_list.html
  /usr/sbin/sendmail $EMAIL < $data_print/stat_circ_doc_plus_loan_list.html
endif
mv $data_print/stat_circ_doc_plus_loan_list.html $data_print/stat_circ_doc_plus_loan_list.`date '+%Y%d%t.%H%M'`
rm $data_print/stat_circ_doc_plus_loan_list_dados.html
rm $script_directory/stat_circ_doc_plus_loan_tmp.sql
echo "Por favor contacte a Biblioteca Virtual $www_feedback_email_address"

exit:
  bl_end
  rm_f_symbol
  exit

```

Mandatory lines

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- Test the script

```
csh -f $aleph_proc <procedure> <parameters>
```

- Example

```
UPB50-ALEPH>csh -f $aleph_proc p_stat_circ_doc_plus_loan UPB50,,20090331,20090902,2,msitiago@gmail.com,Lista'dos'Documentos'Mais'Requis
```

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- Add the service to circulation services menu
- Change to directory where the services menus are stored
- The services menus are stored in \$aleph_root/pc_b_eng but you can use the alias pcb.

```
catalogo.up.pt-18 (1) UPB50-ALEPH>pcb
catalogo.up.pt-18 (1) UPB50-ALEPH>alias pcb
cd $aleph_root/pc_b_eng
catalogo.up.pt-18 (1) UPB50-ALEPH>
```

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- Backup file menu-circ.xml
cp menu-circ.xml menu-circ.xml.backup
- Open the file menu-circ.xml and include the lines to create the services menu.

```
<sub_menu>
  <group_caption>General Statistics</group_caption>
  <item>
    <display>Documentos mais requisitados</display>
    <file>p-stat-circ-doc-plus-loan</file>
  </item>
</sub_menu>
```

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- Changes in ALEPH GUI

```
<sub_menu>
  <group_caption>General Statistics</group_caption>
  <item>
    <display>Documentos mais requisitados</display>
    <file>p-stat-circ-doc-plus-loan</file>
  </item>
</sub_menu>
```

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- Create the file to run the service

```
<sub_menu>
  <group_caption>General Statistics</group_caption>
  <item>
    <display>Documentos mais requisitados</display>
    <file>p_stat_circ_doc_plus_loan</file>
  </item>
</sub_menu>
```

```
ALEPH>>vi p_stat_circ_doc_plus_loan.xml
```

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- Create the file to run the service

```
<?xml version = "1.0"?>
<!DOCTYPE dialog SYSTEM "dialog.dtd">
<dialog>
  <title>Lista dos Documentos Mais Requisitados</title>
  <proc>p_stat_circ_doc_plus_loan</proc>
```

Name of ALEPH script file
in \$aleph_proc directory
(see slide 13)

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- Create the file to run the service

```
<control>
<script_observacao>
<argument>F01</argument>
<label>sub-Biblioteca Administrativa</label>
<default>ALL</default>
<source>F0B-LIBRARY</source>
</script_observacao>
</control>
<control>
<data_time>
<argument>F02</argument>
<label>Data de Indicao</label>
<value>CURRENT</value>
<label%>value</label%>
</data_time>
</control>
<control>
<data_time>
<argument>F02</argument>
<label>Data de Fim</label>
<value>CURRENT</value>
<label%>value</label%>
</data_time>
</control>
<control>
<edit_num>
<argument>F04</argument>
<label>Define número mínimo de Empréstimos</label>
<default>0</default>
<label%>value</label%>
</edit_num>
</control>
<control>
<edit>
<argument>F05</argument>
<label>Insira o e-mail pretendido</label>
<label%>value</label%>
</edit>
</control>
<control>
<edit>
<argument>F06</argument>
<label>Assunto do e-mail</label>
<label%>value</label%>
<default>Lista dos Documentos Mais Requisitados</default>
</edit>
</control>
```

```
source faleph_proo/def_local_env
start_p_generic_proo
set SUBSIS = $p1
set DATAI = $p2
set DATAFIM = $p3
set LIMITE = $p4
set EXEII = $p5
set ASSUNTO = $p6
set lower_lib = 'echo $p_active_library | aleph tr -l'
set script_directory = /exlibris/statistics/services
```

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Statistics Custom Services



- Changes in ALEPH GUI

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Statistics Custom Services



- Results of the service in gmail

The screenshot shows a Gmail interface with a search bar and navigation links. The main content is an email from 'aleph@catalogo.up.pt' with the subject 'Lista dos Documentos Mais Requisitados'. The email body contains a table of document titles and their frequency.

Título	Ocorrência
Harvard Business Review	10
Método Harvard de negociação	10
A arte de bem vender	9
Como negociar com gente difícil	6
Exame	6
Marketeer	7
A empresa gorda	7
The Official Guide for GMAT review	7
Polónia	5
Estratégia	5
Getting to yes	4
Oxford advanced learner's dictionary	4
Perspectivas de Evolução a um ano (2008) da Economia Portuguesa	4
Analyses for financial management	4
Como fazer os outros gostar de si nos negócios e no trabalho	4
Cálculo financeiro	4
Oxford advanced learner's dictionary	4
Contributo para um plano estratégico para a indústria têxtil e do vestuário port ugiuesa	4
Brazil	3
The global competitiveness report 2007-2008	3
Managing creativity and innovation	3
Guiaão de pessoas	3
Os horizontes do marketing	3
Conquering the GMAT math	3
The 7 habits of highly effective people	3
Project Management	3
«O» negócio das marcas	3

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Hands on!

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Questions!

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