Applied Bioinformatics Course

THE EBI SRS SERVER

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CAASO7f2 CAAS07f2



Introduction Project SRS Queries Views Links Analysis Tools



Introduction

SRS是Sequence Retrieval System的缩

写,是目前分子生物学最重要的序列和其他数据检索工具之一。由欧洲分子生物学实验室开发,最初是为核酸序列数据库 EMBL和蛋白质序列数据库SwissProt的查询开发的。通过输入关键词,你就可以对 各类数据库关键词匹配查找,并输出相关 信息.







国际上主要SRS数据库查询系统服务器系统的网址

 > 欧洲生物信息学研究所 <u>http://srs.ebi.ac.uk/</u>
 > 欧洲分子生物学实验室 <u>http://srs.embl.de/</u>
 > 韩国国家基因组信息中心 <u>http://srs.ngic.re.kr/srs/</u>
 > 德国癌症研究所

http://www.dkfz-heidelberg.de/srs/





(This page has been modified by J Luo, 13 Mar 2008)

BLAST和SRS都是序列检索(Sequence Retrieval)工具。但有本质差别

➤ SRS对序列数据库的查询,是指对序列、结构以及各种 二次数据库中的注释信息进行关键词匹配查找。例如,选定蛋白质序列数据库SwissProt,输入关键词insulin(胰岛素),即可找出该数据库所有胰岛素或与胰岛素有关的序列条目(Entry)。数据库查询有时也称数据库检索,它和互联网上通过搜索引擎(Search engine)查找需要的信息是一个概念。



BLAST 是分子生物学特有的工具,它是指通过特定的序列相似性比对算法,找出核酸或蛋白质序列数据库中与检测序列具有一定程度相似性的序列。例如,给定一个胰岛素序列,通过数据库搜索,可以在蛋白质序列数据库 SwissProt或其它选定的数据库中中找出与该检测序列 (query sequence)具有一定相似性的序列。







projects

- Project是SRS的一个强大功能,他为用户 提供了数据的处理,保存,调用和交换等 功能
- Project可分为temporary project和
 permanent project









temporary project

Contents of your temporary project

		Querio	es			View	IS	
esktop:	Save	Name	Query Ex	pression		Name	e	
desktop [c: 苑) Open	Q2 Q1	(embl-AllTi (embl-AllTi	ext:cea*] ext:cea*]		EMBL EMBL	.1	
伯貨								



SRS Project Options

Save to di

Open from

用SRS进行搜索后,project会自动记录我 们的搜索内容。我们可以在此选择保存搜 所内容。但是临时project功能有限,仅有 save 与open的功能

permanent project

EMBL-EBI	EB-eye Search	All Database	s	Enter 1	Text Here
Databases	Tools	EBI Groups	Traini	ing li	ndustry
Quick Search	Library Pag	e Query F	orm	Tools	Res
SRS		Quic	k Text	Search	
<u>Start a Perm</u>	anent Proj	Ect Find	: Nucleo	otides	💌 ma'
和意					
Explorer 用户	提示				
脚本提示:					确定
Enter your SRS - [http://srs.ebi	user name: .ac.uk/srsbin/	cgi-bin/wgetz?	?-page+sr	sq2+-noSess	: 取消
	へ。 你的田户夕				
	N1.H1)I1)				
		-			



Create a project: New Project Open from desktop: ⑦斑... Open Switch projects: wei Switch

- 保存(save),保存当前的数据;
- 重命名(rename),对我们的
 Project进行更名;
- 删除(delete),及时删除一个不用的Project也是必要的。
- 复制 (copy), 我们也可把右边的项目例如Q1等, 拷贝到另一个Project中。
 - 新建(New Project),新建一个 Project,那么接下来的工作将会自动保存到新的Project中。
- 跳转(Switch),此键有助于我们在 不同的Project之间跳转。

 Project是一个帮助我们记录我们在SRS上 搜索,更改风格等操作的工具,通过它, 可以使我们更方便进行数据的保存,尤其 进行多个数据操作,能使我们将各个数据 分开,有条不紊地操作,以及各个Project 之间的数据调用等。







SRS Queries



Quick Search the Standard Query Form the Extended Query Form









Quick Search

Quick Text Search	<u>Search Tips</u>
Find : Proteins matching : dehydrogenase]
Searches Databanks: UniProt Proteins	III Search

Quick Text Search. Sequence Similarity / Homology <u>择库,系统会根据数据</u> Search. (EBISRS中无此项) <u>的类型自动选择合适</u>的库









Nucleotide sequence databases - subsections

the Standard Query Form

Fie	elds you can sea	rch	Your search terms	
In a	a single field, you c	an separate i	multiple values by: &, or !	III Search
A	AllText			
Ð	AllText			
•	AllText			
•	AllText			

the Extended Query Form

Reset search EMBL (Updates)

Search Options	Fields you can search	Your search terms	Create a view
Combine search terms	In a single field, you can se	parate multiple values by &, , !	III Search
with: & (AND)	AllText]
	AllIDs]
Get regults of type:	ID		
Entry	Topology	🗌 circular 🔲 linear	
		🗌 genomic dna 📄 genomic rna	
Result Display Options		🗌 mrna 📃 other dna	
• View results using:		🗌 other rna 📃 pre-rna	
EMBLSeqSimpleView	Molecule	🗌 rrna 📃 snorna	

Search Terms

- Single-word search单词条查询
- Multiple-word phrases多词条短语
- Numbers and dates 数字和数据
- Regular expressions规则的公式
- Wildcards通配符









Single-word search (单词条),就是只输入一个字符,无论在快速搜索,标准搜索还是扩展搜索,均可以使用,例如选择了EMBL之后,输入一个cea (SRS不区分大小写)









■ 多词条比对。同样在三种搜索风格中均适用, 例如输入aldehyde reductase(乙醛酸还原 酶), 合写成aldehydereductase时搜出来的 内容每条均含aldehyde reductase,但是分写 成aldehyde reductase时搜出的结果可能就只 有aldehyde或reductase其中一个。 也可以使用逻辑符号,如aldehyde & reductase (AND), aldehyde | reductase (OR), aldehyde ! reductase (BUTNOT).





Numbers and dates数字和数据搜索。 更适合比较专业的人士,通过数字和冒 号, 感叹号的组合来对结果进行限定 的, 冒号在数字的左边时, 表示结果需 要小于这一数字,相反,在右边则大于 这一数字。而感叹号在冒号的的左边时 表示没有上限,在右边表示没有下限。

但如果用的是**Extended Query Form** 的话,就 简单的多了

Entry Creation Date	between	• 11	• Mar	• 2002	9 • N	tar 💌	2003	
LastUpdated	select	• 1	💌 Jan	• •	1 • J	an 💌	~~~~	
Sequence Length	select	>=	• 212	<= •	400			
References subentry field	ofter before	2						References -
View results using: *Name	between	<u>گ</u>						III Search

- 规则公式搜索。规则搜索时不要求输入整个词条,只需输入一个词的前缀或后缀即可。这样尤其方便但我们对一个词条只记住一半时,或者同时搜索两个以上有共同词根的相关词条的情况:
- 例如输入/^phos/将会得到以"phos"开都的词条的
 相关结果 (例如 phosphate, phosphorylase),
- 而输入/ase\$将会得到以 "ase"结尾的词条的相关结果 (例如 kinase, phosphatase等)。















SRS的一般性搜索和别的数据库搜索大同小异,但是,其分类的精细程度是其他工具所不能比拟的,通过多种选择的组合,是我们搜索到的资源更加接近我们的目标,避免在很多"假阳性"数据上浪费时间。









结果与保存

- 结果的显示风格可以在设置VIEW时改变, 也可以在得到结果后进行改变。
- 选择好目的数据后,点击保存
- 可以通过RESULT来查看我们搜索的结果















UniProtKB/Swiss-Prot	Accession	<u>Description</u>	SeqLength	
UniProtKB/Swiss-Prot:1A11 PRUMU	<u>Q9MB95</u>	1-aminocyclopropane-1-carboxylate synthase 1 (EC <u>4.4.1.14</u>) (ACC synthase) (S-adenosyl-L- methionine methylthioadenosine-lyase).	492	
UniProtKB/Swiss-Prot:2NPD_NEUCR	<u>Q01284</u>	2-nitropropane dioxygenase precursor (EC <u>1.13.11.32</u>) (Nitroalkane oxidase) (2-NPD).	378	
UniProtKB/Swiss-Prot:2NPD WILMR	<u>Q12723</u>	2-nitropropane dioxygenase (EC <u>1.13.11.32</u>) (Nitroalkane oxidase) (2- NPD).	374	
UniProtKB/Swiss-Prot:9GL_ASFB7	<u>Q65163</u>	Probable FAD-linked sulfhydryl oxidase 9GL (EC <u>1.8.3.2</u>).	119	

seqsimpleview

>sw!Q9MB95|1A1L_PRUMU 1-aminocyclopropane-1-carboxylate synthase 1 (EC 4.4.1.14) (ACC synthase) (5-adenosyl-MGSSATAIRFLISKIATSEGHGENSPYFDGWKAYDRNPFHFTKNPEGVIQMGLAEMQLS FDSIEDWIKKNPKASICTPEGVEEFKNVAIFQDYHGFPEFKKAVAMFMSKARGGRVTFDP NRVVMSGGATGANELVMFCLADPGDAFLVPSPYTPAFFRDLGWRIGVQIVFVDCDSSNNF KITKEALEAAYEKAQKUNINVKGLIITNPSNPLGTILDRNTLESLVEFINQKNIHLVCDE IYAATVFSSFGUVSQCJCHLPSMLDDEFVARFLISSKKLMGLPGLRVGIVYSYNDDVVNIG RMASFGLVSQCJCHLPSMLLDEFVARFLISSKKLMGVFTKGLEVGINCLKSN AGLFCWMDLRRLLEDQTFDGEMVLWRVIVNEVGPNVSPGSSFKCVPGWFRVCFANMDDE ILEVALKRIRTFVRQGKMAQDQVVQVKSFKRWKSNLRLSFSSSTRRFDQESVNVLSPHM MSPHSPLVRAKT >sw!Q01284|2NPD_NEUCR 2-nitropropane dioxygenase precursor (EC 1.13.11.32) (Nitroalkane oxidase) (2-NPD).

MHFPGHSSKKEESAQAÄLTKLNSWFPTTKNPVISAPMYLIANGTLAAEVSKAGGIGFVA GSDEFRGSSHLIALSTELASARSRLGLIDRELTPLPGIGVGLILTHTISVPVTDIVLP ILIEHSPQAVWLFANDPDFEASSEPGAKGTAKQIIEALHASGFVVFFQVGTVKDARKAAA DGADVIVAQGIDAGGHQLAIGSGIVSLVPEVRDMLDREFKEREVVVVAAGGVADGRGVVG ALGLGAEGVVLGIFTVAVEASTPEFRKVILEINDGGLNTVKSHFHDQINCNTIMHNVY DGRAVRNASYDDHAAGVPFEENHKKFKEAASSGDNSRAVTWSGTAVGLIKDQRPAGDIVR ELREEAKERIKKIQAFAA

>sw!Q12723|2NPD_WILMR 2-nitropropane dioxygenase (EC 1.13.11.32) (Nitroalkane oxidase) (2- NPD). MRSQ1QSFLKTFEVRYPIIQAPMAGASTLELAATVTRLGGIGSIFMGSLSEKCDAIETQL ENFDELVGDSGRIVNLNFFAHKEPRSGRADVNEEWLKKYDNIYGKAGIEFDKKELKLYP SFRSIVDPQHPTVRLLKNLKPKIVSFHFGLPHEAVIESLQASDIKIFVTVTNLQEFQQAY ESKLDGVVLQGWEAGGHRGNFKANDVEDGQLKTLDLVSTIVDYIDSASISNPFFILAAGG IHDDESIKELLQFNIAAVQLGTVWLPSSQATISPEHLKMFQSPKSDIMMTAAISGRNLRT ISTFFLRDLHQSSPLASIPDYPLPYDSFKSLANDAKQSGKGPQYSAFLAGSNYHKSWKDT RSTEETSSLLVQDL

fasta

	UniProtKB/Swiss-Prot:1A11_PRUMU	1- aminocyclopropane- 1-carboxylate synthase 1 (EC 4.4.1.14) (ACC synthase) (S- adenosyl-L- methionine methionine mittylthioadenosine- lyase).	0. 40 0. 20 0. 0 -0. 20 -0. 20 -0. 4 -0. 60 -0. 80 -0. 80 -0. 80 -0. 9 -0. 80 -0. 9 -0. 9 -0. 9 -0. 80 -0. 9 -0. 9 -0
NIN	UniProtKB/Swiss-Prot:2NPD_NEUCR	2-nitropropane dioxygenase precursor (EC <u>1:13:11:32</u>) (Nitroalkane oxidase) (2-NPD).	



proteinchart

Use this page to set the requirements when searching for links to other entries from your existing query results.

Links



Get to the Link Page

- Manage your Query Results page
- the Query Result page
- the Entry page











Find Links from the Manage your Query Results Page





Find Links from the Query Result Page



. .

Find Links from the Entry Page

Entry Information

Entry from:



Entry Options Launch analysis tool: NCBI BLASTP Launch Link to related information: Link Save entry: Save View: Printer Friendly

General informatio	on la constante de la constante
Entry name	1A11_PRUMU
Accession number	Q9MB95
Integrated	02-NOV-2001, UniProtKB/Swiss-Prot.
Sequence update	01-OCT-2000, sequence version 1
Annotation update	11-SEP-2007, entry version 40
UniSave	Q9MB95
UniRef100	UniRef100 Q9MB95
UniParc	UPI0000124E2D
Description and or	igin of the Protein
Description	1-aminocyclopropane-1-carboxylate s lyase).
Gene name(s)	ACS1
Organism source	Prunus mume (Japanese flowering ap
Taxonomy	Eukaryota; Viridiplantae; Streptophyt; eudicotyledons; rosids; eurosids I; Ro
NCBI TaxID	102107
References	
[1]	Mita,S., Kirita,C., Kato,M., Hyodo,H., Expression of ACC synthase is enhar (1999) Physiol. Plantarum 107:319-32
	Position NUCLEOTIDE SEQUENCE [MR
Commonte	

General Description Ref



two forms of the Link page

Link Options

Select the databanks you want to search for related information

 Find related entries
 Refine Query - show only results with

related entries Show only results without related entries

Databanks Available to Link to

Expand all
 Collapse all

- Literature, Bibliography and Reference Da
- Gene Dictionaries and Ontologies
- Nucleotide sequence databases
- Nucleotide related databases
- UniProt Universal Protein Resource
- Other protein sequence databases
- Protein function, structure and interaction
- Enzymes, reactions and metabolic pathwa
- Mutation and SNP databases
- Other databases
- User owned databases
- Application result databases

initiated the links from either the Manage your Query Results or Query Result

pages

Link Options

III Search

Select the databanks you want to search for related information



Databanks Available to L

Expand all
 Collapse

- Literature, Bibliograph
- Gene Dictionaries and
- Nucleotide sequence d
- Nucleotide related data

initiated the links from either the **Entry** page

÷.

Link Options

Find related entries

- This option searches for entries in the databanks you have ticked, and which have links to the current query. The result is a list of entries in the selected databanks.
- Refine Query show only results with related entries
 - This option searches for entries in the current query which have links to the databanks you have selected. The result is a subset of the entries with which you started.
- Show only results without related entries
 - This option looks for entries in the current query which do not have links to the databanks you have selected. The result is a subset of the entries with which you started.

Link Options

Select the databanks you want to search for related information

- Find related entries
- Refine Query show only results with related entries
- Show only results without related entries

Search



Expression Linking

search for a link between two or more sets of results or between a set of results and a databank.





Entries in the set or databank to the left of the operator are returned if they have a link to any entries in the set or databank to the right of the operator.

Entries in the set or databank to the right of the operator are returned if they have a link to any entries in the set or databank to the left of the operator.

Linking operations.

Operators	Example	Returns Entries in:
<	Q1 < Q2	In Q1 that link to Q2.
>	Q1 > Q2	In Q2 that link to Q1.
< &	Q1 < Q2 & Q3	In Q1 that link to Q2 and Q3.
<	Q1 < Q2 Q3	In Q1 that link to Q2 or Q3.
< !	Q1 < Q2 ! Q3	In Q1 that link to Q2 but not Q3.

Expression Linking Examples

 If you have a set of EMBL entries in a query, Q3, which you wish to search for links with the SWISS-PROT databank, type:

Q3 < swissprot

- This will show the EMBL entries from the original query that have links to the SWISS-PROT databank.
- If you would rather see the SWISS-PROT entries that the above operation returned, turn the linking operator around so that it points towards SWISS-PROT:

Q3 > swissprot

 This returns the SWISS-PROT entries that have links with the entries in Q3.

Analysis Tools

SRS analyis tools are bioinformatics programs that use a databank query as input. The output file from an analysis tool is indexed in the same way as any other databank. This enables users to store and query their analyses.



SRS与其他数据库搜索网站的一个很重要不的不同之处就在于:

在SRS上不仅可以搜索到我们所要查询的 核酸(蛋白)的相关信息,而且可以在查 找到结果的同时对这些数据进行一定的分 析处理。









这项操作可以通过SRS中的分析工具 来完成

在SRS首页的控制面板上可以选择 Tools 键,便可进入分析工具的页面。















这两种进入分析工具方式的主要 区别在于:

- Quick Launch的下拉菜单中直接显示分析 程序的名称;而在工具列表中则是按照程 序的功能进行分类的。
- 在工具列表中可以显示与这项工具相关的 其它信息。
 - 因此,我们可以根据具体的情况来决定选 择哪种方式进入程序。





进入程序后可以在输入序列的对话框中直接粘贴上FASTA格式的序列,或是输入文件名称。









在SRS中的TOOLS工具的使用方法和其他的生物信息学的工具一样。而最大的不同就在于:在SRS中可以对搜索到的数据直接进行相应的处理。









下面以CEA为例进行说明



在Library Page中选择Swiss-Prot,点击进入
 Standard Query Form。在查找区域填入
 CEA.点击,Search进行查找

Fields you can search

Your search terms

In a single field, you can separate multiple values by: &, | or !



Ð	Description	Cea
6)	AllTaxt	▼





找到相关的6个结果,根据查找的目的找到 相关的数据。在显示结果的页面的左侧的工 具栏中可以看到Tools的选项,点击该键, 便可进入对已选结果可以进行的相应的分析 工具的页面。

点击此键

Result Opt	tions
Launch analysis tool:	
NCBI BLASTP	Launch
,	
Show tools relevant t	o these
results:	Tools
Link to related inform	ation:
	Link
Save results:	Save

🖃 Alignment Tools

- 🛨 Alignment Differences
- 🛨 🛛 Alignment Dot Plots
- 🛨 Alignment Global
- 🛨 Alignment Local
- 😑 Alignment Multiple

ClustalW Multiple protein sequence alignment - Launch More Info...

ClustalW2 Multiple protein sequence alignment - Launch More Info...

- 🛨 Display Tools
- \pm Edit Tools
- Information Tools
- 🛨 Nucleic Tools
- 🛨 Protein Tools
- 🗄 Similarity Search Tools

对查找的结果进行Clustalw处理, 点击launch键



Use residue specific penalties



! Sequence: SWISSPROT:CEAM2_MOUSE Carcinoembryonic antigen-related cell adhesion mol... ! Sequence: SWISSPROT:CEAM5_HUMAN Carcinoembryonic antigen-related cell adhesion mol... ! Sequence: SWISSPROT:CEAMA_MOUSE Carcinoembryonic antigen-related cell adhesion mol... ! Sequence: SWISSPROT:LYRIC_HUMAN Protein LYRIC (Lysine-rich CEACAM1 co-isolated pro... ! Sequence: SWISSPROT:LYRIC_MOUSE Protein LYRIC (Lysine-rich CEACAM1 co-isolated pro... ! Sequence: SWISSPROT:LYRIC_MOUSE Protein LYRIC (Lysine-rich CEACAM1 co-isolated pro... ! Sequence: SWISSPROT:LYRIC_RAT Protein LYRIC (Lysine-rich CEACAM1 co-isolated pro... ! Sequence: SWISSPROT:LYRIC_RAT Protein LYRIC (Lysine-rich CEACAM1 co-isolated pro...

CEAM2_MOUSE	MELASAHLHKGQVPWFGLLLTASLLASWSPPTTAQVTVMAFPLHAAE
CEAM5_HUMAN	MESPSAPPHRWCIPWQRLLLTASLLTFWNPPTTAKLTIESTPFNVAE
CEAMA_MOUSE	MELASAHLHKGQVPWVGLLLTASLLTYWSPATTAQVTVEAVPPNVTA
LYRIC_HUMAN	MAARSWQDELAQQAEEGSARLREMLSVGLGFLRTELGLDLGLEPKRYPGWVILVGTGALG
LYRIC_MOUSE	MAARSWQDELAQQAEEGSARLRELLSVGLGFLRTELGLDLGLEPKRYPGWVILVGTGALG
LYRIC_RAT	MAARSWQDELAQQAEEGSARLRELLSVGLGFLRTELGLDLGLEPKRYPSWVILVGTGALG
	* ** :. :* * * : .

CEAM2_MOUSE CEAM5_HUMAN CEAMA_MOUSE LYRIC_HUMAN LYRIC_MOUSE LYRIC_RAT GNNVILVVYNMMKGVSAFSWHKGSTTSTNAEIVRFVTGTNKTIKGPVHSGRETLYSNGSL GKEVLLLVHNLPQHLFGYSWYKGERVDGNRQIIGYVIGTQQATPGPAYSGREIIYPNASL DNNVLLLVHNLPQTLRVFYWYKGNSGAGHNEIGRFVTSINRSKMGLAHSGRETIYSNGSL LLLLFLLGYGWAAACAGARKKRRSPPRKREEAAAVPAAAPDDLALLKNLRSEEQKKKNRK LLLLFLLGYGWAAACAGARKKRRSPPRKREEAAP-PTPAPDDLAQLKNLRSEEQKKKNRK

.::*: :. . : . . * :

CEAM2_MOUSE CEAM5_HUMAN CEAMA_MOUSE LYRIC_HUMAN LYRIC_MOUSE LYRIC_RAT LIQRVTMKDTGVYTIEMTDQNYRRRVLTG----QFHVHKLLLKSNITSNNSNPVEGDDSV LIQNIIQNDTGFYTLHVIKSDLVNEEATG----QFRVYPELPKPSISSNNSKPVEDKDAV FFQSVTKNDEGVYTLYMLDQNFEITPISVR----FHVHPSLLP----SLSPPTTGQVTV KLSEKPKPNGRTVEVAEGEAVRTPQSVTAKQPPEIDKKNEKSKKNKKKSKSDAKAVQNSS KLPEKPKPNGRTVEVPEDEVVRNPRSITAKQAPETDKKNEKSKKNKKKSKSDAKAVQNSS KLPEKPKPNGRTVEIPEDEVVRTPRSITAKQPPETDKKNEKSKKNKKKSKSDAKAVQNSS 由此可以看出,SRS可以方便快捷的查找 出相关数据的同时,并可以对得到的数据 作出准确地分析。这样就不会像以前在其 它数据库查出结果后再将结果进行分析那 么繁琐了。











SRS在UNIX下的命令行

- SRS不仅可以在Windows下使用,而且也可以在Unix环境中操作。
- 使用getz可以通过命令行进行数据库的查询。
- 例如:从SWISS-PROT 数据库中检索 azuri





getz "[swissprot-des:azurin]"







Option	Default	Function
-help		Help with getz.
-e	FALSE	Prints the entire entry.
-t	FALSE	Copy the complete text (annotation) part of the entry
-d	FALSE	Copy the data (e.g. sequence) part of the entry.
—i	FALSE	Print the tokens that would be generated for indexing.
-f <string></string>		Include fields in entry list.
-vf <string></string>		List of fields that will be placed into a table view.
-w	FALSE	Appends a wildcard to each search word.
-1b <n></n>	0	Number of first entry in set to be viewed.
-11 <n></n>	0	Number of entries to be viewed in one go.
-l v	FALSE	List all values that match the query.
-lvf	FALSE	List all values that match the query, plus the number of entries for each match.
-lmin <n></n>	0	List only values that occur at least the specified number of times. Use together with $-1v$.
-c	FALSE	Report the number of entries that were found, but not the entries themselves.
-info	FALSE	Prints info about the specified databank.
-libs	FALSE	Prints a list of all active databanks.
-view <string></string>		Name of view to be used when displaying entries.
-rs <string></string>		String of one or more characters to separate records in view.
-cs <string></string>		String of one or more characters to separate columns in view.
-sf <string></string>		Format of sequence output file.
-af <string></string>		Format of sequence alignment output file.
-html	FALSE	Select HTML format for output.
-ascii	TRUE	Select ASCII format for output.
-of f	FALSE	Accesses the off-line version of a databank.
-id <string></string>		The user ID, or filename associated with a WWW session.
-sort <string></string>		The name of the field on which to sort the query.
-sortDir <string></string>		Ascending (0) or descending sort.



FOR YOUR ATTENTIONS

