

Managing Baskets in the Showcase Environment

Version 1.2

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1 About Baskets

The Showcase system uses the concept of a basket of data, analogous to an on-line shopping site such as a supermarket or amazon, but containing items of data rather than physical goods or services. Once access to UK Biobank has been approved for an Application, then the Principle Investigator (and designated others) can use the Data buttons within the Application Management System (AMS) to connect to the Showcase and create baskets containing a list of the Data-Fields, Genomic SNPs and Returned-Datasets they would like to have access to.

2 New Baskets

2.1 Getting Started

Figure Q1 shows a typical view of the Basket screen when a researcher first connects to the Showcase and a basket is created without contents. There are a variety of ways to populate the basket.

Summary of Basket 2000921 Basket 2000921, Application 42755, Researcher 100120

This basket is currently empty.

To populate this basket you might like to begin by adding the data in some of the QuickStart categories below. Alternatively, or afterwards, you can add and remove individual fields and whole categories directly from their Showcase pages.

Quick Start **List Actions**

To add fields from the Quick Start categories, select the desired boxes below then click the Add Selection button. Please Note that these categories are not mutually exclusive.

Core Dataset		Specialist Items	
Socio-demographics	<input type="checkbox"/> 111 fields	DXA images	<input type="checkbox"/> 1 fields
Lifestyle	<input type="checkbox"/> 461 fields	Carotid ultrasound images	<input type="checkbox"/> 3 fields
Family history	<input type="checkbox"/> 20 fields	OCT scans	<input type="checkbox"/> 8 fields
Physical measures	<input type="checkbox"/> 578 fields	ECG and cardiac monitor	<input type="checkbox"/> 2 fields
Early life and reproductive factors	<input type="checkbox"/> 20 fields	Accelerometer data	<input type="checkbox"/> 2 fields
Cognitive function	<input type="checkbox"/> 47 fields	Genome sequencing	<input type="checkbox"/> 14 fields
Geographical measures	<input type="checkbox"/> 38 fields	Brain MRI scans	<input type="checkbox"/> 21 fields
Health outcomes	<input type="checkbox"/> 559 fields	Cardiac MRI scans	<input type="checkbox"/> 8 fields
Imaging measures	<input type="checkbox"/> 1069 fields	Abdominal MRI scans	<input type="checkbox"/> 8 fields
Genotype results, process and QC	<input type="checkbox"/> 48 fields		
Biomarkers	<input type="checkbox"/> 453 fields		
Procedural metrics	<input type="checkbox"/> 63 fields		

Add Selection

Figure Q1: Initial basket screen with empty basket.

The simplest way to add Data-Fields to a basket is to select whole groups from the “Quick-Start tab”. To do this, tick the check-boxes beside the desired groups then click the “Add Selection” button to add them to the current basket. Note that these groups are not always mutually exclusive.

Quick Start **List Actions**

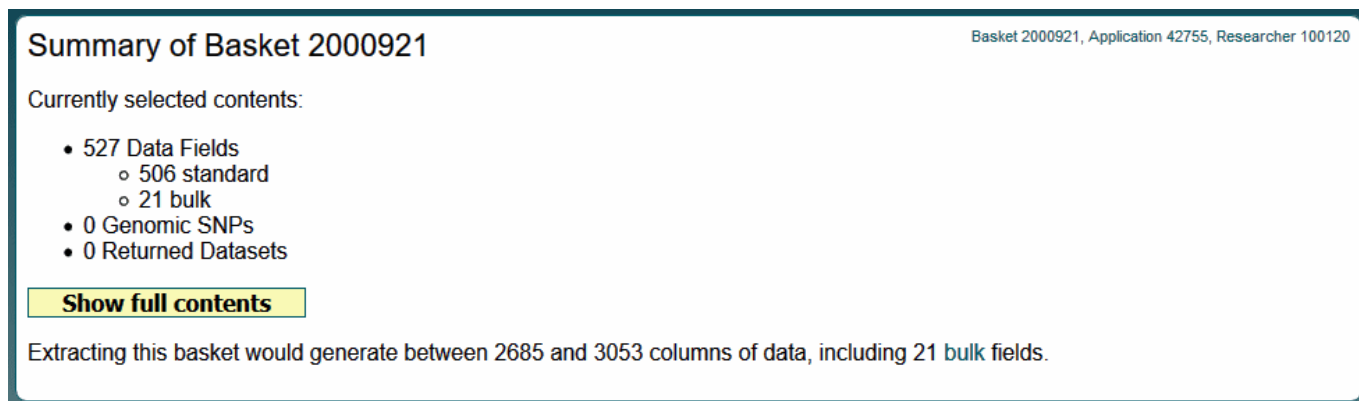
To add fields from the Quick Start categories, select the desired boxes below then click the Add Selection button. Please Note that these categories are not mutually exclusive.

Core Dataset		Specialist Items	
Socio-demographics	<input type="checkbox"/> 111 fields	DXA images	<input type="checkbox"/> 1 fields
Lifestyle	<input checked="" type="checkbox"/> 461 fields	Carotid ultrasound images	<input type="checkbox"/> 3 fields
Family history	<input type="checkbox"/> 20 fields	OCT scans	<input type="checkbox"/> 8 fields
Physical measures	<input type="checkbox"/> 578 fields	ECG and cardiac monitor	<input type="checkbox"/> 2 fields
Early life and reproductive factors	<input type="checkbox"/> 20 fields	Accelerometer data	<input type="checkbox"/> 2 fields
Cognitive function	<input checked="" type="checkbox"/> 47 fields	Genome sequencing	<input type="checkbox"/> 14 fields
Geographical measures	<input type="checkbox"/> 38 fields	Brain MRI scans	<input checked="" type="checkbox"/> 21 fields
Health outcomes	<input type="checkbox"/> 559 fields	Cardiac MRI scans	<input type="checkbox"/> 8 fields
Imaging measures	<input type="checkbox"/> 1069 fields	Abdominal MRI scans	<input type="checkbox"/> 8 fields
Genotype results, process and QC	<input type="checkbox"/> 48 fields		
Biomarkers	<input type="checkbox"/> 453 fields		
Procedural metrics	<input type="checkbox"/> 63 fields		

Add Selection

Figure Q2: Quick Start tab showing three groups selected for addition.

After adding data-fields, the upper part of the Basket screen will show a summary of the contents of the basket. It also estimates how much data is likely to be generated if the basket is extracted (i.e. converted into a file and made available to a researcher for download).



Summary of Basket 2000921 Basket 2000921, Application 42755, Researcher 100120

Currently selected contents:

- 527 Data Fields
 - 506 standard
 - 21 bulk
- 0 Genomic SNPs
- 0 Returned Datasets

Show full contents

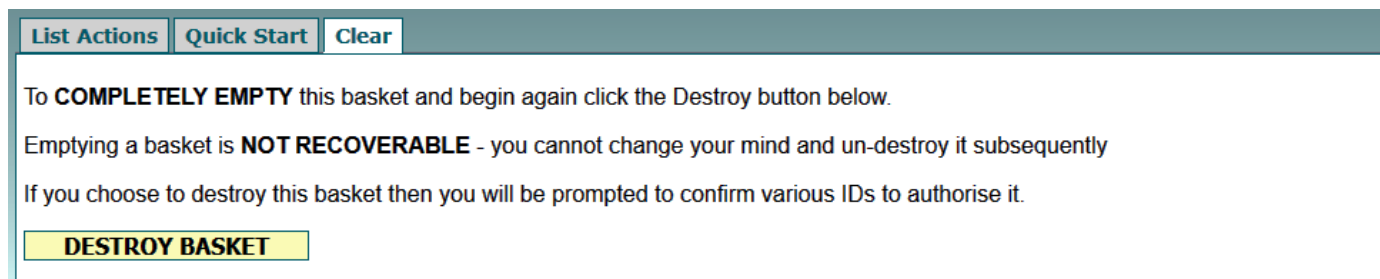
Extracting this basket would generate between 2685 and 3053 columns of data, including 21 bulk fields.

Figure Q3: Summary view of basket.

An important thing to note here is that it is very easy to create large baskets containing many thousands of Data-Fields resulting in downloads with tens of thousands of columns. Large datasets require considerable local resources to analyse but, more importantly, will require a substantial investment of time and effort to understand. It is suggested that researchers invest a little time in selecting only the data they are actively interested in to save considerably greater effort downstream managing extraneous data.

2.2 Emptying Baskets

The “Clear” tab on the Basket screen contains a “DESTROY BASKET” button which will remove all contents from the current basket. Emptying a basket cannot be undone.



List Actions **Quick Start** **Clear**

To **COMPLETELY EMPTY** this basket and begin again click the Destroy button below.

Emptying a basket is **NOT RECOVERABLE** - you cannot change your mind and un-destroy it subsequently

If you choose to destroy this basket then you will be prompted to confirm various IDs to authorise it.

DESTROY BASKET

Figure E1: Emptying a basket.

2.3 Using Lists

It is possible to populate a basket by directly entering the IDs for the Data-Fields, SNPs and Returned-Datasets of interest. To do this, go to the “List Actions” tab on the Basket screen as shown in L1.

Figure L1: List Actions

On the “List Actions” tab, select the type of item you wish to add (using the radio-buttons), type/copy/paste the list of IDs into the memo box on the left, then click “Add IDs”. L2 shows how the screen would look like just prior to adding a set of four IDs for Data-Fields.

Figure L2: Adding a list of Field IDs

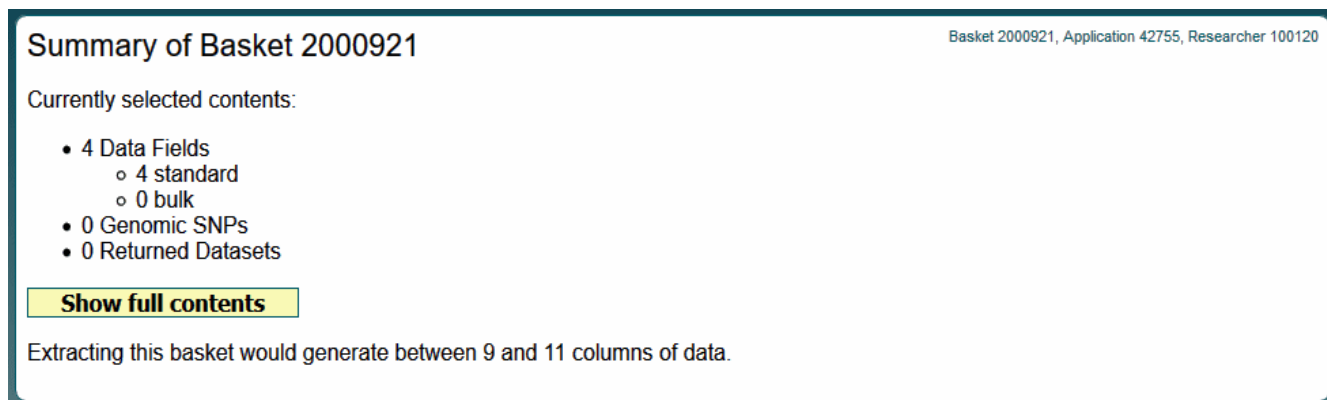
The “Multi-type” option enables simple addition of a set of mixed-type identifiers, using letter prefixes to distinguish the types. For example, entering the list

```
F53
S890617
R432
```

would add Data-Field 53, SNP 890617 and Returned-Dataset 432 to the basket. The “Remove IDs” button allows similar removal of a batch of IDs from a basket.

2.4 View and editing contents

After adding Data-Fields the basket contents display will change to show the results. B1 illustrates how the screen would appear if the four IDs in L2 had been added to an empty basket.



Summary of Basket 2000921 Basket 2000921, Application 42755, Researcher 100120

Currently selected contents:

- 4 Data Fields
 - 4 standard
 - 0 bulk
- 0 Genomic SNPs
- 0 Returned Datasets

Show full contents

Extracting this basket would generate between 9 and 11 columns of data.

Figure B1: Summary display of basket with 4 fields

Clicking the “Show full contents” button will expand this display to allow the individual items to be seen, grouped into their origin categories with the display collapsed (i.e. all expandable sections minimised) to reduce the detail as shown in B2.



Summary of Basket 2000921 Basket 2000921, Application 42755, Researcher 100120

Show All **Hide All**

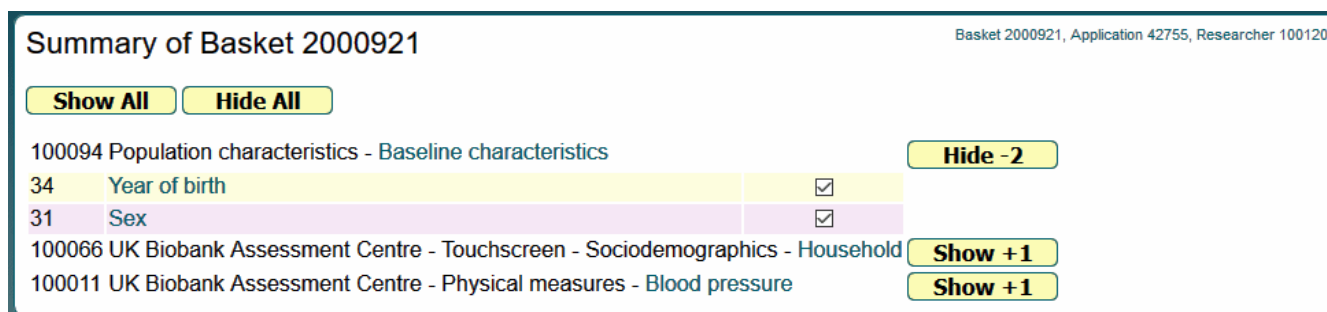
100094 Population characteristics - Baseline characteristics **Show +2**

100066 UK Biobank Assessment Centre - Touchscreen - Sociodemographics - Household **Show +1**

100011 UK Biobank Assessment Centre - Physical measures - Blood pressure **Show +1**

Figure B2: Content display with all categories initially collapsed.

The categories shown can be expanded by clicking on the “Show +N” buttons. B3 illustrates the basket in B2 after the “Show +2” button corresponding to the Baseline Characteristics category has been clicked.



Summary of Basket 2000921 Basket 2000921, Application 42755, Researcher 100120

Show All **Hide All**

100094 Population characteristics - Baseline characteristics **Hide -2**

34	Year of birth	<input checked="" type="checkbox"/>
31	Sex	<input checked="" type="checkbox"/>

100066 UK Biobank Assessment Centre - Touchscreen - Sociodemographics - Household **Show +1**

100011 UK Biobank Assessment Centre - Physical measures - Blood pressure **Show +1**

Figure B3: Content display with one category expanded

A ticked check-box is displayed alongside each Data-Field. Un-ticking a box will remove the corresponding Data-Field from the basket (this also applies to SNPs and Returned-Datasets when present).

2.5 Using Categories

A common way to navigate the Showcase is via the Browse feature which organises information according to its category of origin. When researchers are logged into the system and creating a basket an extra section is displayed (see C1) on each Category page giving options to add or remove associated Data-Fields.

Category 100 Basket 2000921, Application 42755, Researcher 100120
 Brain MRI - Imaging - UK Biobank Assessment Centre

Description
 This category groups together results from the MRI brain imaging studies performed at UK Biobank assessment centres.
 Before selecting this data it is strongly recommended that researchers view [Resource 1977](#).

Remove Cat & sub-Cats Remove Category Add Category Add Cat & sub-Cats

Notes 7 Sub-Categories 7 Data-Fields 1 Parent Category 6 Resources

Category ID	Description	Items
110	T1 structural brain MRI	23+153
112	T2-weighted brain MRI	5
107	Diffusion brain MRI	4+675
111	Resting functional brain MRI	12
106	Task functional brain MRI	26
109	Susceptibility weighted brain MRI	17
108	Scout images and configuration for brain MRI	2

Figure C1: Category screen showing all add/remove options.

There are four possible actions here. The central “Add”/”Remove” buttons will add or remove all the Data-Fields in the category currently being viewed. The outer “... & sub-Cats” buttons will add or remove all the Data-Fields in the current category plus all of the sub-categories (as per the Browse tree) below it. Beware that using these options on the upper-level categories may result in very large baskets.

Only relevant buttons will be displayed so if there are no sub-categories then the outer pair will not appear, and if the current category does not contain any Data-Fields the inner pair will not appear. Buttons do not vanish after use, so (e.g.) an Add button will remain visible even if all the related Data-Fields have already been added.

The Items column shows the number of Data-Fields in/beneath a category. The initial number is the count within the current category and the second number (after the +) shows the count within all sub-categories.

Notes 7 Sub-Categories 7 Data-Fields 1 Parent Category 6 Resources

Field ID	Description	Basket
25780	Acquisition protocol phase.	<input checked="" type="checkbox"/>
12139	Believed safe to perform brain MRI scan	<input checked="" type="checkbox"/>
12187	Brain MRI measuring method	<input type="checkbox"/>
12188	Brain MRI measurement completed	<input type="checkbox"/>
12663	Reason believed unsafe to perform brain MRI	<input checked="" type="checkbox"/>
12652	Reason brain MRI not performed	<input type="checkbox"/>
12704	Reason brain MRI not completed	<input type="checkbox"/>

Figure C2: List of individual Data-Fields within a category.

The “Data-Fields” tab (C2) lists all the Data-Fields in the current category, alongside check-boxes allowing them to be instantly added or removed from the basket. A similar feature is provided for individual Returned-Datasets.

2.6 Searching

Data-Fields can be found by searching on keywords. If this is done then the result listing (see S1) will include check-boxes indicating whether any particular item is already in the basket. As elsewhere ticking/un-ticking one of these check-boxes will add/remove the corresponding Data-Field.

Search
Basket 2000921, Application 42755, Researcher 100120

Data-Field
 Data-Coding
 Category
 Resource
 Return
 Genomics

also match on similar terms and synonyms.

Stability

 Complete
 Updateable
 Accruing
 Ongoing

Strata

 Primary
 Derived
 Supporting
 Auxiliary

Item Type

 Data
 Samples
 Bulk
 Records

Value Type

 Integer
 Categorical (multiple)
 Text
 Time
 Categorical (single)
 Continuous
 Date
 Compound

Finds matches where Text appears in any of the description, notes or data-codings associated with a Data-Field.

6 Data-Fields

Field ID	Description	Basket	Category
20060	Reason at-rest ECG performed without bicycle	<input checked="" type="checkbox"/>	ECG during exercise
6019	ECG/bike method for fitness test	<input checked="" type="checkbox"/>	ECG during exercise
22617	Job SOC coding	<input type="checkbox"/>	Employment history
132	Job code	<input type="checkbox"/>	Employment
20024	Job code - deduced	<input checked="" type="checkbox"/>	Employment
22601	Job coding	<input type="checkbox"/>	Employment history

Figure S1: searching for a Data-Field by keyword

2.7 Using Filters

A facility is available allowing researchers to filter baskets so that the extracted dataset excludes participants with particular unwanted combinations of values. Applying filters during basket selection can save considerable downstream work later and eliminate downloading any data which is extraneous to the research being conducted.

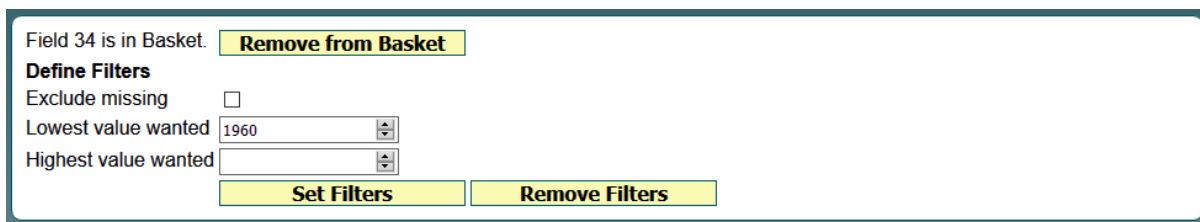
To apply a filter, the relevant Data-Field must first be added to a basket. Once added, the screen for that specific Data-Field will display a central box like that in F1.



Field 34 is in Basket. Remove from Basket
There are no Filters defined. Define Filters

F1: Data-Field section without a filter defined

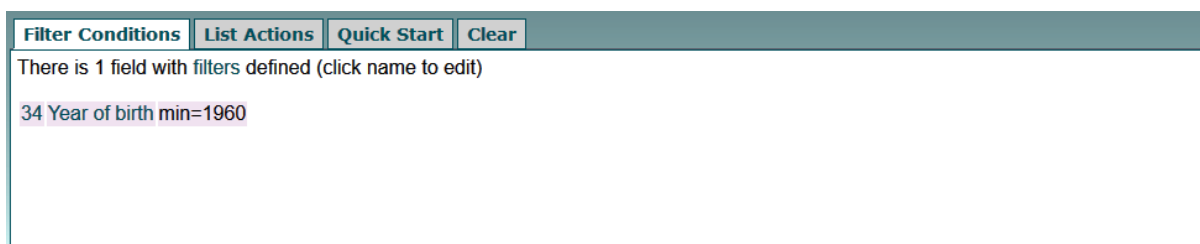
Clicking the “Define Filters” button will open up a dialogue like the one below which allows the user to describe the values of participants they want in their dataset. The values shown in F2 (below) will result in a dataset containing only people who are born on or after the year 1960. Note that the “Set Filters” button must be clicked to record these values – it is not automatic like the basket add/remove check-boxes.



Field 34 is in Basket. Remove from Basket
Define Filters
Exclude missing
Lowest value wanted 1960
Highest value wanted
Set Filters Remove Filters

F2: Defining a numeric filter

Applying the filter in F2 then returning to the basket screen will show something like F3.



Filter Conditions List Actions Quick Start Clear
There is 1 field with filters defined (click name to edit)
34 Year of birth min=1960

F3: Single filter displayed on basket screen.

Often multiple filters will be required to trim a basket down to the desired level. F4 shows an example of setting a filter on a categorical Data-Field.

It is not currently possible to filter on categorical Data-Fields where the underlying encoding is a tree (for instance ICD10).

Field 4717 is in Basket. Remove from Basket

Define Filters

Exclude missing

Want "Yes"

Want "No"

Want "Do not know"

Want "Prefer not to answer"

Set Filters Remove Filters

Data | **3 Instances** | **Notes** | **6 Categories** | **0 Related Data-Fields** | **0 Tabulations** | **2 Resources**

229,860 items of data are available, covering 207,051 participants, encoded using Data-Coding 100349.
 Defined-instances run from 0 to 2, labelled using Instancing 2.

Category	Count (thousands)
Yes	23,660
No	201,247
Do not know	4,501
Prefer not to answer	452

Counts of participants/items last updated 27 Mar 2019.

F4: Defining a categorical filter

Returning to the basket screen after setting both the filters in F2 and F4 will display something like F5.

Filter Conditions | **List Actions** | **Quick Start** | **Clear**

There are 2 fields with filters defined (click name to edit)

34 Year of birth min=1960

4717 Shortness of breath walking on level ground 2 choice-codes

Method of combining multiple filters:

AND - participants selected only when all conditions are met

OR - participants selected if any condition is met

F5: Summary of multiple filters

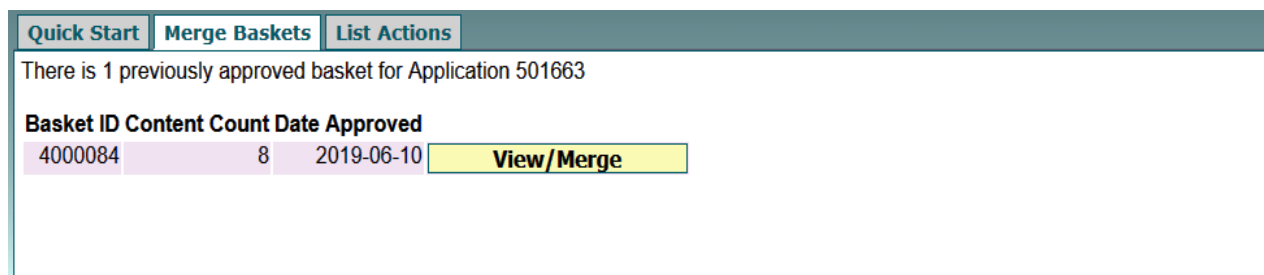
When multiple filters are present, the user must indicate how they wish them combined. Selecting the “AND” option here would return only people born on/after 1960 and who had also answered “Yes” or “Do-not-know” to Shortness of Breath. Selecting the “OR” option would return people who satisfied either criteria, so would additionally include people born before 1960 who had answered “Yes” or “Do-not-know” as well as anyone born after 1960 irrespective of their answer to Shortness of Breath.

Note that applying several filters using the “AND” option may result in a final dataset which is empty due to no participants fulfilling all the criteria simultaneously.

2.8 Merging previous baskets

After an initial basket has been extracted it is possible for researchers to create additional ones and, as projects evolve, they sometimes accumulate a number of these with overlapping and nested contents. The Merge facility is provided to tidy up such a situation, avoiding the need to refresh large numbers of baskets and amalgamate their data after downloading.

When previously extracted baskets exist a “Merge Baskets” tab will appear in the Basket screen displaying them as in M1.



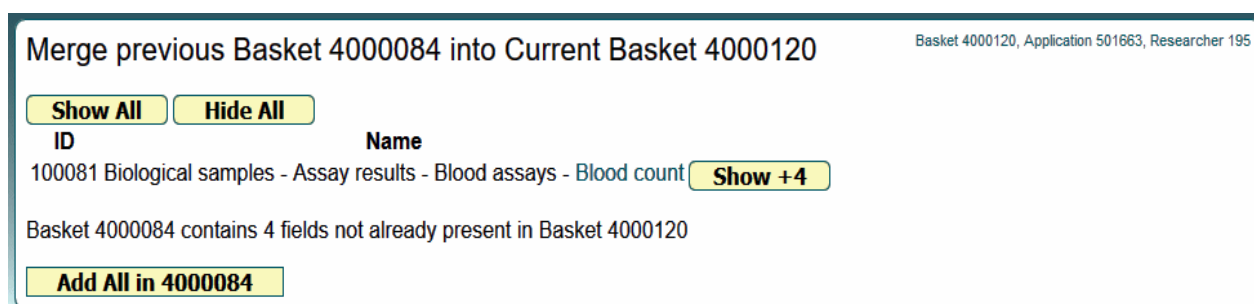
Quick Start Merge Baskets List Actions

There is 1 previously approved basket for Application 501663

Basket ID	Content Count	Date Approved	
4000084	8	2019-06-10	View/Merge

M1: Display of previous basket

To incorporate some or all of the Data-Fields in a previous basket into the current one, use the “View/Merge” button to open up the options in M2.



Merge previous Basket 4000084 into Current Basket 4000120 Basket 4000120, Application 501663, Researcher 195

[Show All](#) [Hide All](#)

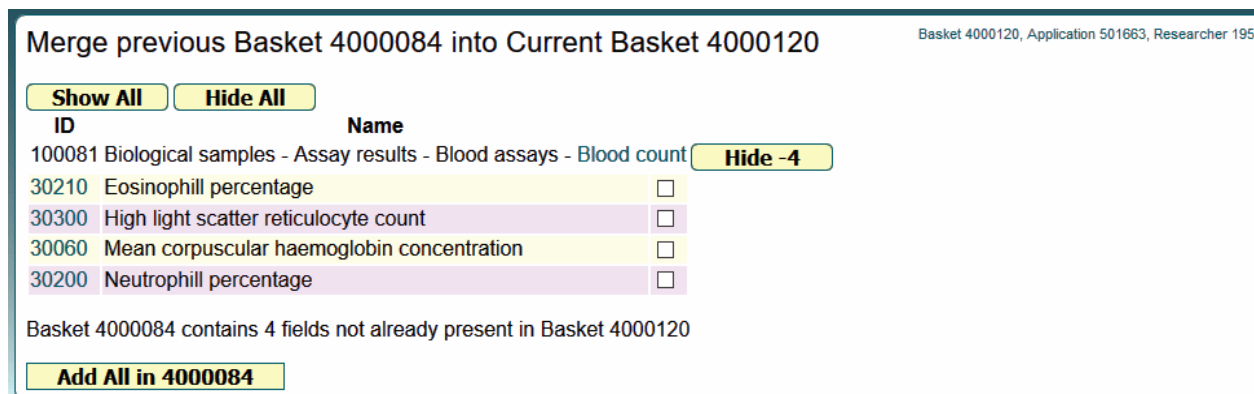
ID	Name	
100081	Biological samples - Assay results - Blood assays - Blood count	Show +4

Basket 4000084 contains 4 fields not already present in Basket 4000120

[Add All in 4000084](#)

M2: Basic merge options

From this screen the “Add All” button will copy all Data-Fields from the previous basket into the current one. As with the basket viewing display, clicking the “Show +N” button will expand the display to list the Data-Fields individually (see M3) from where the check-boxes can be used to add specific Data-Fields only.



Merge previous Basket 4000084 into Current Basket 4000120 Basket 4000120, Application 501663, Researcher 195

[Show All](#) [Hide All](#)

ID	Name	
100081	Biological samples - Assay results - Blood assays - Blood count	Hide -4
30210	Eosinophill percentage	<input type="checkbox"/>
30300	High light scatter reticulocyte count	<input type="checkbox"/>
30060	Mean corpuscular haemoglobin concentration	<input type="checkbox"/>
30200	Neutrophill percentage	<input type="checkbox"/>

Basket 4000084 contains 4 fields not already present in Basket 4000120

[Add All in 4000084](#)

M3: Individual merge options.

2.9 Genotype SNPs

The genomic search feature can be used to identify SNPs which have been genotyped (it does not include imputed or sequenced results) as shown in G1.

Genomic Search
Basket 2000921, Application 42755, Researcher 100120

SNP rsID **rs**

Affy snp ID **Affx**

Probe set

Chromosome

Position

Range

9 Results

SNP rsID	Chr	Pos (start)	Pos (end)	Domain	Count	Affy ID	Basket
2799072	1	990773	990773	BB/BL	488377	16279962	<input type="checkbox"/>
3813193	1	998501	998501	BB/BL	488377	16299895	<input type="checkbox"/>
7520893	1	998578	998578	BB/BL	488377	16300085	<input type="checkbox"/>
6683745	1	999649	999649	BB/BL	0	16303543	<input type="checkbox"/>
11260596	1	1002434	1002434	BB/BL	488377	16311137	<input type="checkbox"/>
4075116	1	1003629	1003629	BB/BL	488377	16313896	<input type="checkbox"/>
3934834	1	1005806	1005806	BB/BL	488377	16319772	<input type="checkbox"/>
9442394	1	1006223	1006223	BB/BL	488377	16320723	<input type="checkbox"/>
113592356	1	1004331	1004331	BB/BL	488377	35298588	<input type="checkbox"/>

G1: Result of genomic search.

As with Data-Fields, a check-box is presented alongside each usable SNP and ticking/unticking it will add/remove the corresponding SNP. Some of the genotyped SNPs were not deemed usable (indicated by a 0 in the Count column) and, since they contain no results, cannot be added to baskets.

Clicking on an individual SNP in the search results goes to the more detailed screen in G2, from where it may also be added/removed.

Genomic Search
Basket 2000921, Application 42755, Researcher 100120

SNP rsID **rs**

Affy snp ID **Affx**

Probe set

Chromosome

Position

Range

1/1

rsID 2799072	1 probeset: AX-32822817									
Affy ID Affx-16279962										
Location Chrom 1, 990773-990773 (size 1)										
Type True SNP. Exactly one nucleotide on the flanking sequence is replaced with exactly one nucleotide on the subject sequence.	Click <input type="button" value="Add to Basket"/> to add Affx-16279962 to Basket									
Domain UKBiobank and UKBiLEVE										
Count 488,377										
Num AA 361,035										
Num AB 108,413										
Num BB 8,941										
Untyped 9,988										
<table border="1" style="margin: 5px auto; border-collapse: collapse;"> <thead> <tr> <th></th> <th>Allele A (Alt)</th> <th>Allele B (Ref)</th> </tr> </thead> <tbody> <tr> <td>Length</td> <td>1</td> <td>1</td> </tr> <tr> <td>Sequence</td> <td>T</td> <td>C</td> </tr> </tbody> </table>			Allele A (Alt)	Allele B (Ref)	Length	1	1	Sequence	T	C
	Allele A (Alt)	Allele B (Ref)								
Length	1	1								
Sequence	T	C								

G2: Individual SNP

Researchers requiring more than a few dozen SNPs should request the bulk genotype data and pull them out of that locally.

2.10 Returned Datasets

Returned-datasets can be identified either by direct searching or found within the appropriate Category screens on the Showcase. The results of a search are shown in D1.

Search
Basket 2000921, Application 42755, Researcher 100120

Data-Field
 Data-Coding
 Category
 Resource
 Return
 Genomics

also match on similar terms and synonyms.

Search

Finds matches where Text appears in the name, author, paper or notes associated with a Returned dataset.

3 Returns

Return ID	Description	Basket
124	Derived variables from application 735/ 15716 - myopia variables	<input type="checkbox"/>
1461	<i>McKibbin, M. et al</i> ; Monocular and binocular visual impairment in the UK Biobank study: prevalence, associations and diagnoses; <i>BMJ Open Ophthalmology. 2018</i>	<input type="checkbox"/>
1458	<i>McKibbin, M. et al</i> ; Vitreoretinal interface abnormalities in middle-aged adults with visual impairment in the UK Biobank study: prevalence, impact on visual acuity and associations; <i>BMJ Open Ophthalmology. 2017</i>	<input type="checkbox"/>

D1: Result of returned-dataset search

As with Data-Fields, a check-box is presented alongside each usable Returned-Dataset and ticking/unticking it will add/remove the corresponding item from the basket. Clicking on an entry, either from the search screen or within the “Returns” tab on a Category screen, will show more detailed information (D2) about a Returned-Dataset.

Return 124
Basket 2000921, Application 42755, Researcher 100120

Application: 735, Risk factors for myopia in adults

Title: Derived variables from application 735/ 15716 - myopia variables

Author: -

Paper: -

URL: -

Size: 7.3 MB

Archived: 9 Jun 2015

Stability: Complete

Personal: Contains individual-level data

Click **Add to Basket** to add Return 124 to Basket

Notes
Application 735
1 Category

Derived variables from application 735/ 15716 - myopia variables. Used in the following publications: Guggenheim JA, Williams C, for the UK Biobank Eye and Vision Consortium. Role of Educational Exposure in the Association Between Myopia and Birth Order. *JAMA Ophthalmol. 2015;133(12):1408-1414. doi:10.1001/jamaophthalmol.2015.3556* Guggenheim JA, Williams C, for the UK Biobank Eye and Vision Consortium. Childhood febrile illness and the risk of myopia in UK Biobank participants. *Eye 2016; 30: 608 - 614 doi:10.1038/eye.2016.7*

D2 : Information about a returned-dataset

3 Previous Baskets

A basket within the Showcase is a 'shopping list' rather than the actual contents. After a new basket has been approved for extraction it remains on the system and its definitions can be re-used.

3.1 Examining History

To view the previous baskets associated with an Application click the Application button on the top right of the screen. This will display any relevant details about the Application and display a list (H1) of any previously approved baskets associated with it.

Approved Baskets				
There are 12 previously approved baskets for Application 40541				
Basket ID	Name	Contents	State	Date Approved
2003645	exomes	10	Active	2019-03-28
2003029	-	10	Active	2019-03-27
2002205	-	11	Active	2019-03-15
2002126	-	1	Active	2019-01-16
2001718	Triple choices	3	Active	2018-11-26
2001382	Quad	4	Active	2018-10-02
2001098	-	117	Active	2018-07-17
2000659	-	14	Active	2018-05-11
2000174	-	14	Active	2018-02-12
39299	-	2	Active	2018-03-23
99999	-	2	Retired	2019-08-08
39298	First genotypes	74	Retired	2018-03-23

Click on ID/name of previously approved baskets to view, refresh or change state.

H1 : Previous baskets displayed on Application screen

The Name and State of a basket can be altered by clicking on its ID and using the buttons in the Actions tab on the following screen (see H2). The Name of a basket is purely for presentation purposes to allow researchers to more easily distinguish between them when there are multiples.

Refreshes	Actions
	Rename basket
	Retire basket

H2: Modifying basket properties

Currently the State of a basket is irrelevant but this is likely to change in a future release of the system.

3.2 Refreshing Baskets

As the UK Biobank dataset expands and new data is added for existing data-fields, a basket can be re-used to acquire the latest data associated with its definition. This is called *refreshing* the basket.

Clicking on the ID/Name of basket in the Application Screen (H1) opens up a view of the basket (R1) showing its contents, history of any prior refreshes and (if certain conditions are met) a Refresh to be requested.

Approved Basket 2001098 Application 40541, Researcher 5858

Name: -
Approved: 17 Jul 2018 (117 items)

[Show All](#) [Hide All](#)

ID	Name	
2000	Health-related outcomes - Hospital in-patient	Show +2
2022	Health-related outcomes - Hospital in-patient - Diagnoses - Summary Information (diagnoses)	Show +5
2012	Health-related outcomes - Hospital in-patient - Diagnoses - Spell and Episode Data (diagnoses)	Show +8
2025	Health-related outcomes - Hospital in-patient - Operations - Summary Information (operations)	Show +2
2015	Health-related outcomes - Hospital in-patient - Operations - Spell and Episode Data (operations)	Show +7
2021	Health-related outcomes - Hospital in-patient - Admission and discharge - Summary Information (admission and discharge)	Show +21
2011	Health-related outcomes - Hospital in-patient - Admission and discharge - Spell and Episode Data (admission and discharge)	Show +34
2023	Health-related outcomes - Hospital in-patient - Maternity - Summary Information (maternity)	Show +10
2013	Health-related outcomes - Hospital in-patient - Maternity - Spell and Episode Data (maternity)	Show +23
2024	Health-related outcomes - Hospital in-patient - Psychiatric - Summary Information (psychiatric)	Show +5

[Refreshes](#) [Actions](#)

The last update to the data repository was on 1 Apr 2019.
The last update to any of the data fields in basket 2001098 was on 8 Mar 2019.

There have been no refresh requests for this basket.

[Request Refresh](#)

R1 : Contents of a previous basket

After clicking the Request Refresh button the lower tab will change to show (R2) the status of the request.

[Refreshes](#) [Actions](#)

The last update to the data repository was on 1 Apr 2019.
The last update to any of the data fields in basket 2001098 was on 8 Mar 2019.

Refresh ID	State	Created	Last update
28704	Queued	14 Aug 2019	14 Aug 2019

This basket cannot currently be refreshed. Reason: a refresh of this basket was requested on 14 Aug 2019 which is after the last update to the data repository. Refreshing this basket now would fetch no new data.

R2 : Progress of a refresh request

Note that a basket cannot be refreshed if, for any reason, doing so would result in the same contents as a previous extraction of that basket.

END