

# Database Retrieval

Retrieval functions applying to database objects are called from the Database Retrieval menu that is called with the command RETRIEVE DATABASE or with function code R and object type code DA in a Predict Main Menu.

This section covers the following topics:

- Database-specific retrieval parameters
- Database-specific retrieval functions
- Layout of database lists
- Output options

**Note:**

Standard retrieval functions are described in the section Retrieval in the **Predict Reference documentation**.

## Database-Specific Retrieval Parameters

Parameters	
Database of type	Limits the scope of the function to databases of a certain type. Enter an asterisk to display possible values at your site or see complete list of database types in the section Database Maintenance Menu.
Database number	Limits the scope of the function to databases with the number specified.

## Database-Specific Retrieval Functions

### Explode IMS Database - Code I

Shows the hierarchical structure of an IMS/DL1 database. The level number before the file ID shows the level of the IMS/DL1 segment in the hierarchy.

This function is only applicable to databases of type I.

Command: EXPLODE DATABASE.

### Databases with children - with Association Type Contains FI and Output Option Adabas size=Y

The following output is produced with function Display databases with children if you specify association type *Contains FI* and output option Adabas size=Y for databases and files of type Adabas .

```

13:13:02          ***** P R E D I C T 4.2.2 *****          2002-07-31
                    - Display Database with Children -

Database ID ..... DA-WITH-FILE
Type ..... ADABAS C, Isolated      Added 2002-07-31 at 10:25 by ARH
Physical DBnr ..... 57              Modified 2002-07-31 at 10:42 by ARH
-----

ADABAS attributes                                NATURAL file numbers
Maximal files .....                          System file (FNAT) ...
Checkpoint file .....                        NAT-Security (FSEC) ..
ADABAS security .....                        PREDICT (FDIC) .....
Size of RABN ..... 0
Distr. transaction ... N No
Vista access only .... N

----- Database primary sizes -----
                Number of                Alternate RABN
                Device   Cylinder   RABN                Start   End
ASSO R1   3390       15         4032                1200   3200
ASSO R2   3390       14         3780                2000   3760
DATA R1   3380       12         1611
DATA R2   3380       13         1755

Cnt  File ID                                Type  Fnr   DDM Impl Other
    1  FI-A-001                              A     123
    2  FI-A-002                              A     124

----- Summary of sizes-----
Type  Device  No. of RABN  Min. RABN  Undoc. RABN
ASSO  3390    7812        1942      5870
DATA  3380    3366        1205      2161

*** End of report ***

```

The total ASSO and DATA sizes defined for the database are calculated and displayed in column Summary of sizes/No. of RABN.

The sum of the sizes of ASSO and DATA for the individual related files is calculated and displayed in column Min. RABN.

The number of available RABNs is displayed in the column Undoc. RABN, or a message is given indicating that the sizes of the files exceed the size available in the parent database.

The system also checks whether the devices specified for the files are also specified for the parent database.

## Layout of Database Lists

The following list format applies when retrieving information on databases with output mode List.

```

13:37:03          ***** P R E D I C T  4.2.2  *****          2002-07-31
                    - List Database -

-----
Cnt  Database ID                                Type                                P-DBnr  Run Mode
-----
 15  ARH-X                                       INFORMIX Handler                    24  Local
 16  ARH-Y1                                     SYBASE Handler                      22  Local
 17  * ARTICLE                                  IMS
 18  AZ-PREDICT                                 ADABAS C                             66  Isolated
 19  AZ-SAGPRD                                  DB2

*** End of report ***
    
```

Meaning of Columns	
Database ID	<p>ID of the database object.</p> <p>If the output option Mark implementation is set to Y, implemented objects are marked with an asterisk. For databases, "implemented" means that it is one of the following:</p> <ul style="list-style-type: none"> <li>● of type A and connected to a physical Adabas database,</li> <li>● of type D and connected to a physical DB2 database</li> <li>● of type P and its database number is defined in the NTDB macro as an Entire System Server database,</li> <li>● or of type I.</li> </ul>
Type	The database type. See Database Maintenance Menu.
P-DBnr	The physical number of the database.
Vista Parm	Accessibility of Adabas databases using Adabas Vista. Possible values are listed in the section Defining Basic Attributes of Databases.

## Output Options for Database Retrieval

**Note:**

Unless output mode is S, the option Cover page is always valid.

**Note:**

Page size is only applicable when printing or if general default parameter "Use SAG Editor for output" is set to Y. Page size is not applicable in batch mode.

Retrieval Type	D		B				O		T							
	dummies=Y N				dummies=D P											
Output Mode	D	L	D	L	D	L	D	L	D	L	D	L	D	L		
Current/Related	c	c	c	r	c	r	c	c	c	r	c	r	c	r	c	r
Adabas sizes	x		x				x		x				x			
Association attributes			x	x	x	x			x	x	x	x				
Attributes	x		x				x		x				x			
Connecting character				x								x				
Description	x		x	x			x		x	x			x			
Display modifier	x		x				x		x				x			
Dummy/Placeholder										x		x		x		x
Extract	x		x	x			x		x	x			x	x		
Keywords	x		x	x			x		x	x			x			
Mark implementation	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
No. abstract lines	x	x	x	x	x	x	x	x	x	x	x	x	x		x	
Owner	x		x	x			x		x	x			x			
With users	x		x	x			x		x	x			x			
Show implementation	x		x				x		x				x			
Use Con-form	x		x	x			x		x	x			x			
User exit	x		x				x		x				x			

Retrieval Type	U		E				C				I	
	D	L	T	X	L	D	T					
Output Mode	D	L	T	X	L	D	T					
Current/Related	c	c	c	r	c	r	c	r	c	r	c	r
Adabas sizes	x											
Association attributes			x	x								
Attributes	x			x		x						
Connecting character				x		x				x		
Description	x					x				x		
Display modifier	x											
Dummy/Placeholder				x		x	x			x		
Extract	x			x		x				x	x	
Keywords	x			x		x				x		
Mark implementation	x	x	x	x	x	x		x		x	x	x
No. abstract lines	x	x		x		x		x		x		x
Owner	x			x		x				x		
With users	x									x		
Show implementation	x											
Use Con-form	x					x				x		
User exit	x											