

**ResultsRecord** structure

```
#include <DatabaseAccess.h>
```

```
typedef struct ResultsRecord { Size  Offset  Description
  short      numRows;    2      0      number of rows in result
  short      numCols;    2      2      number of columns per row
  Handle     colTypes;    4      4      data type array
  Handle     colData;    4      8      actual results
  Handle     colInfo;    4      12     DBCColumnInfoRecord array
} ResultsRecord ;                16
```

The *numRows* field in the **ResultsRecord** indicates the total number of rows retrieved. If the **DBGetQueryResults** function returns a result code other than rcDBValue, then not all of the data actually returned by the data source was retrieved. This could happen, for instance, if the user's computer does not have sufficient memory space to hold all the data. In this case, your application can make more space available (by writing the data in the data record to disk, for example) and then call the **DBGetQueryResults** function again to complete retrieval of the data.

**Note:** The **DBGetQueryResults** function retrieves whole rows only; if it runs out of space in the middle of a row, it stores the partial row in a private buffer so that the data in the **ResultsRecord** ends with the last complete row. Because the last partial row is no longer available from the data server, you cannot start to retrieve data with the **DBGetQueryResults** function and then switch to the **DBGetItem** function to complete the data retrieval.

The *numCols* field indicates the number of columns in each row of data.

The *colTypes* field is a handle to an array of data types, specifying the type of data in each column. The number of elements in the array is equal to the value in the *numCols* parameter.

The *colData* field is a handle to the data retrieved by the **DBGetQueryResults** function.

The *colInfo* field is a handle to an array of records of type **DBCColumnInfoRecord**, each of which specifies the length, places, and flags for a data item. There are as many records in the array as there are data items retrieved by the **DBGetQueryResults** function.