

**APPENDIX C**

**A DATA BASE MANAGEMENT SYSTEM  
ENVIRONMENT (Partial)**



## **Introduction**

This appendix gives the top level, and the sub-tasks for one top level task, in a Relational Data Base Management System (RDBMS) Environment. Any reader who has had to learn to use such systems knows the large amount of reading and experimentation that is required before one can perform even the simplest tasks. This appendix should convince all such readers (1) of the enormous amount of time a rigorous Environment can save such beginning user, and (2) that even such complex systems as RDBMS's can be documented via the method described in chapter 3. ("All computer systems are the same!")

Keep in mind that all sample Environments in this book are hard-copy implementations. In on-line implementations, "See ..." would be replaced by hypertext links, and the ordering of information would not necessarily be alphabetical.

## **Data Base Management System Environment**

### **Start Pages**

If you have never used an Environment like this before, please read the “Introduction” [not shown] immediately following these Start pages. Then return here and continue.

To use the RDBMS:

1. Install the RDBMS if necessary.  
See “RDMBS, install” [not shown].

2. Configure the DBMS if necessary.  
See “RDBMS, configure [not shown].

3. Turn on DBMS if necessary.  
See “DBMS, turn on” [not shown].

4. Do any of the following in any order you wish, as often as you wish. When you are done, go to step 5.

Find the names of existing databases.  
See “database names, find” [not shown].

Create a new database schema.  
See “schema, create a” [not shown].

Modify an existing database schema.  
See “schema, modify a” [not shown].

Delete a database.  
See “database, delete a” [not shown].

Add data to a database.  
See “data, add” [not shown].

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Copy data from one database to another.

See “data, copy” [not shown].

Modify data in a database.

See “data, modify”.

Delete data in a database.

See “data, delete” [not shown].

Print, i.e., make a report of, data in a database.

See “data, print” [not shown].

Perform System Administrator (SA) operations on a database, e.g.,

- set or modify permissions, roles;
- set or modify resource allocations, including memory;
- do backup/restore of a database.

See “SA operations, perform” [not shown].

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## **data, modify**

To modify data to a database:

1. Open database if necessary.  
See “database, open a” [not shown].
2. Determine names of all tables containing data you want to modify.  
See “table, determine name of” [not shown].
3. Access SQL Editor.  
See “SQL Editor, access” [not shown].
4. For each table containing data you want to modify:

begin

- 4.1 Write start-of-transaction statement.  
See “transaction, start a” [not shown].
- 4.2 Write the appropriate update statements.  
See “update statement” [not shown].
- 4.3 Write end-of-transaction statement.  
See “transaction, end a” [not shown].
- 4.4 Execute transaction.  
See “transaction, execute a” [not shown].
- 4.5 If error messages occur, repair errors.  
See “error messages” [not shown].

end;