

PostgreSQL Book Proposal

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1. Introduction
2. Installation
 - (a) Getting POSTGRESQL
 - (b) Compiling
 - (c) Initialization
 - (d) Starting the server
 - (e) Creating a database
 - (f) Issuing database commands
3. Introduction to SQL
 - (a) Why a database?
 - (b) Creating tables
 - (c) Adding data with INSERT
 - (d) Viewing data with SELECT
 - (e) Removing data with DELETE
 - (f) Modifying data with UPDATE
 - (g) Restriction with WHERE
 - (h) Sorting data with ORDER BY
 - (i) Usage of NULL values
4. Advanced SQL Commands
 - (a) Inserting data from a SELECT
 - (b) Aggregates: COUNT, SUM, etc.
 - (c) GROUP BY with aggregates
 - (d) HAVING with aggregates
 - (e) Joining tables
 - (f) Using table aliases
 - (g) UNION clause
 - (h) Subqueries
 - (i) Transactions
 - (j) Cursors
 - (k) Indexing
- (l) Table defaults
- (m) Primary/Foreign keys
- (n) AND/OR usage
- (o) LIKE clause usage
- (p) Temporary tables
- (q) Importing data
5. POSTGRESQL'S Unique Features
 - (a) Object ID's (OID)
 - (b) Multi-version Concurrency Control (MVCC)
 - (c) Locking and Deadlocks
 - (d) Vacuum
 - (e) Views
 - (f) Rules
 - (g) Sequences
 - (h) Triggers
 - (i) Large Objects(BLOBS)
 - (j) Adding User-defined Functions
 - (k) Adding User-defined Operators
 - (l) Adding User-defined Types
 - (m) Exotic Preinstalled Types
 - (n) Arrays
 - (o) Inheritance
6. Interfacing to the POSTGRESQL Database
 - (a) C Language API
 - (b) Embedded C
 - (c) C++
 - (d) JAVA
 - (e) ODBC
 - (f) PERL
 - (g) TCL/Tk

- (h) PYTHON
- (i) Web access (PHP)
- (j) Server-side programming (PLPGSQL and SPI)

7. POSTGRESQL Administration

- (a) Creating users and databases
- (b) Backup and restore
- (c) Performance tuning
- (d) Troubleshooting
- (e) Customization options
- (f) Setting access permissions

8. Additional Resources

- (a) Frequently Asked Questions (FAQ'S)
- (b) Mailing list support
- (c) Supplied documentation
- (d) Commercial support
- (e) Modifying the source code