

# 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