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1 CouchDB MCP Quick Start Guide

1.1 Setup Complete!

Your CouchDB MCP server is now fully configured and running!

1.2 Current Configuration

1.2.1 Claude CLI Version

- **Version:** 2.0.50 (Claude Code)
- **Node.js:** v20.19.5
- **Location:** /home/piggy/miniconda3/envs/skol/bin/clause

1.2.2 MCP Server Status

- **Name:** couchdb
- **Status:** ✓ Connected
- **Type:** stdio
- **Python:** /home/piggy/miniconda3/envs/skol/bin/python

- **Script:** /data/piggy/src/github.com/piggyatbaqaqi/skol/couchdb_mcp_server.py

1.2.3 Connected Databases

- skol_dev
- skol_taxa_dev

1.2.4 Server URL

- http://localhost:5984

1.3 Usage

1.3.1 Command Line Usage

You can now use the Claude CLI to interact with your CouchDB databases:

```
# Start a Claude Code session
claude code

# Within the session, use the /mcp command to see available servers
/mcp
```

1.3.2 Available MCP Commands

```
# List all configured MCP servers
claude mcp list

# Get details about the CouchDB server
claude mcp get couchdb

# Remove the server (if needed)
claude mcp remove couchdb -s local
```

1.3.3 Natural Language Queries

Once you start a Claude Code session, you can ask natural language questions about your CouchDB databases:

How many documents are in skol_dev?

Search for documents containing "Amanita" in skol_taxa_dev

Show me the first 10 documents from skol_dev

Get document "species_001" from skol_taxa_dev

```
List all attachments for document "doc123"
```

1.4 Available Tools

Your MCP server provides 8 tools:

1. **list_databases** - List all CouchDB databases
2. **get_document** - Get a document by ID
3. **query_documents** - Query with pagination and filters
4. **search_documents** - Full-text search across documents
5. **get_attachment** - Retrieve document attachments
6. **list_attachments** - List all attachments for a document
7. **execute_view** - Execute CouchDB views
8. **count_documents** - Count documents with optional filters

1.5 Security

Your credentials are stored in: - **Environment file**: .env (protected by .gitignore) - **Claude config**: ~/.claude.json (local scope, not shared)

The .env file is **not** committed to version control for security.

1.6 Project Files

- couchdb_mcp_server.py - MCP server implementation
- .mcp.json - Project-scoped MCP configuration
- .env - Environment variables (credentials)
- COUCHDB_MCP_SETUP.md - Detailed setup documentation
- MCP_QUICK_START.md - This file

1.7 Next Steps

1. Start using it!

claude code

2. Try a query:

```
/mcp  
List all databases
```

3. Explore your data:

```
Search for "mycology" in skol_dev database
```

1.8 □ Troubleshooting

1.8.1 Server Not Connected

If `claude mcp list` shows the server as disconnected:

1. Check CouchDB is running:

```
curl http://localhost:5984
```

2. Verify credentials:

```
curl -u username:password http://localhost:5984/_all_dbs
```

3. Check Python path:

```
which python
```

4. Test the MCP server directly:

```
/home/piggy/miniconda3/envs/skol/bin/python couchdb_mcp_server.py
```

1.8.2 Database Not Found

Check that your databases exist:

```
curl -u username:password http://localhost:5984/_all_dbs
```

1.8.3 Permission Issues

Verify your CouchDB credentials in `.env` are correct.

1.9 □ Documentation

- COUCHDB_MCP_SETUP.md - Complete setup guide
- Official MCP Docs
- Claude Code Docs

1.10 □ Success!

Your CouchDB MCP server is ready to use! Start exploring your databases with natural language queries.

Need help? Check COUCHDB_MCP_SETUP.md for detailed documentation.