

Contents

1: What Is IBM Db2?	1
From the Mainframe to Distributed Platforms and the IBM Cloud	3
Db2 Today	3
2: Structured Query Language (SQL)	5
3: The Db2 Call Level Interface	9
4: Python and Db2	15
Installing the Python Interpreter	17
IBM Db2 Support for Python	18
5: Setting Up a Python-Db2 Development Environment	21
A Word About <i>My</i> Development Platform: the UDOO X86	22
Downloading the Db2 Software	23
Enabling root User Access (<i>Ubuntu Linux Setup Only</i>)	25
Preparing a Linux Server for Db2 Installation	25
Installing the Db2 Software	27
Building the SAMPLE Database	36
Installing the Db2 Python Library (Driver)	38
Summary	40
6: Building Python Applications That Work with Db2	41
Functionality Provided by the <code>ibm_db</code> and <code>ibm_db_dbi</code> Python Libraries	42
Special Objects Used by Db2-Python Applications	47
Establishing a Db2 Server or Database Connection	48

Transaction Processing: Executing SQL Statements	51
Transaction Processing: Retrieving Query Results	53
Transaction Processing: Obtaining Result Set Information	56
Transaction Processing: Terminating the Current Transaction	58
Calling Stored Procedures	60
Terminating a Db2 Server or Database Connection	61
Obtaining Information About a Data Source and Setting Driver Options	62
Diagnostics and Error Handling	63