

# SQL Basics – bit.io

Our "Practice" SQL environment:

- We will be using the website "**bit.io**"
- This website provides the capability to:
  - Create a database
  - Make it publicly available to students
  - Run SQL statements

# SQL Basics – bit.io

- bit.io uses a standard PostgreSQL database engine
- bit.io offers excellent help at the click of a button

# SQL Basics – the bit.io interface

alanparadise/nw

Private

Drag and drop or [choose file](#)

Create Repo

Help

Repo

Share

Connect

Contents

Repo Summary

Tables

suppliers

supplierid

companyname

contactname

contacttitle

address

city

region

postalcode

country

phone

fax

homepage

shippers

products

employees

customers

categories

orders

orderdetails

License

suppliers

12 COLUMNS

87 ROWS

49.2kB TABLE SIZE

Table Documentation - suppliers

Column Documentation

supplierid

INTEGER

Click to Input column description ...

companyname

VARCHAR

Click to Input column description ...

contactname

VARCHAR

Click to Input column description ...

contacttitle

VARCHAR

Click to Input column description ...

address

VARCHAR

Click to Input column description ...

city

VARCHAR

Click to Input column description ...

region

VARCHAR

Click to Input column description ...

postalcode

VARCHAR

Click to Input column description ...

Query Results

CLEAR QUERY RESULT

Create View

Download Repo

supplierid	companyname	contactname	contacttitle	address
1	Exotic Liquids	Charlotte Cooper	Purchasing Manager	49 Gilbert St.
2	New Orleans Cajun Delights	Shelley Burke	Order Administrator	P.O. Box 78934
3	Grandma Kelly's Homestead	Regina Murphy	Sales Representative	707 Oxford Rd.
4	Tokyo Traders	Yoshi Nagase	Marketing Manager	9-8 Sekimai Musashino-
5	Cooperativa de Quesos 'La...	Antonio del Valle Saavedra	Export Administrator	Calle del Rosal 4
6	Mayumi's	Mayumi Ohno	Marketing Representative	92 Setsuko Chuo-ku
7	Pavlova Ltd.	Ian Devling	Marketing Manager	74 Rose St. Moonie Pon

Query Editor

Run Query

Plot Data

1 Select \* from "alanparadise/nw"."suppliers";

3

# SQL Basics – bit.io

The instructions for your first Lab Exercise include

- Navigating to bit.io
- Logging in to bit.io
- Connecting to our Lab Repository
- Running your first queries

# SQL Basics – bit.io

Table names must be fully qualified

- `"reponame"."tablename"`

# SQL Basics – Demo Database

## The Northwinds Database

- Sample relational database from Microsoft
- Northwinds purchases food items (“**products**”) from **suppliers**
- **Employees** sell products to **customers** through **orders**
- 8 tables



# The Northwinds Data Model

