

PostgreSQL database

Build Pizza restaurant database on PostgreSQL

▼ 1. Connect to PostgreSQL server

```
library(RPostgreSQL)
library(tidyverse)
```

▼ 2. Create connection

```
Con <- dbConnect(
  PostgreSQL(),
  host = "floppy.db.elephantsql.com",
  dbname = "hwhxighd",
  user = "hwhxighd",
  password = "9dU0YEHlAkqPcQRnD8JwHVPIHENn9n7r",
  port = 5432
)
```

▼ 3. Create dataframe

```
customers <- tribble(
  ~Customerid,
  ~Firstname,
  ~Lastname,
  ~Country,
  ~Email,
  ~Tel,
  001, "Peter", "Smith", "USA", "Peter@gmail.com", "1900900988",
  002, "Ada", "Carpenter", "Fiji", "AdaC@yahoo.com", "1067557855",
  003, "Johny", "Depp", "Ireland", Null, "1776643211",
  004, "Iris", "Lee", "Korea", "Lee@outlook.com", "1775530033"
)

invoices <- tribble(
  ~Invoiceid,
  ~Customerid,
  ~Invoicedate,
  ~Amount,
  001, 002, "2023-10-29", 500,
  002, 003, "2023-10-30", 300,
  003, 001, "2023-11-01", 700,
  004, 004, "2023-11-04", 400
)

invoice_item <- tribble(
  ~Itemid,
  ~Invoiceid,
  ~Menuid,
  ~Menu,
  ~UnitPrice,
  ~Quantity,
  001, 001, 003, "Seafood", 500, 1,
  002, 002, 002, "FourCheese", 300, 1,
  003, 003, 001, "Veggie", 350, 2,
  004, 004, 001, "Pepporoni", 400, 1
)
```

▼ 4. Write table to data

```
dbWriteTable(con, "customers", customers)
dbWriteTable(con, "invoices", invoices)
dbWriteTable(con, "invoice_item", invoice_item)
```

▼ 5. Get data

▼ Code & results

```
dbGetQuery(con, "select * from customers")
```

Result

```
> dbGetQuery(con, "select * from customers")
  row.names Customerid Firstname Lastname Country
1          1          1    Peter   Smith    USA
2          2          2     Ada Carpenter  Fiji
3          3          3   Johny    Depp Ireland
4          4          4     Iris     Lee   Korea
      Email      Tel
1 Peter@gmail.com 1900900988
2 AdaC@yahoo.com 1067557855
3 john@gmail.com 1776643211
4 Lee@outlook.com 1775530033
```

```
dbGetQuery(con, "select * from invoices")
```

```
> dbGetQuery(con, "select * from invoices")
  row.names Invoiceid Customerid Invoicedate Amount
1          1          1          2 2023-10-29    500
2          2          2          3 2023-10-30    300
3          3          3          1 2023-11-01    700
4          4          4          4 2023-11-04    400
```

```
dbGetQuery(con, "select * from invoice_item")
```

```
> dbGetQuery(con, "select * from invoice_item")
  row.names Itemid Invoiceid Menuid      Menu UnitPrice
1          1          1          3   Seafood      500
2          2          2          2 FourCheese    300
3          3          3          1    Veggie     350
4          4          4          1 Pepporoni     400
  Quantity
1          1
2          1
3          2
4          1
```