## Writing SQL with R

 $https://en.wikiversity.org/wiki/Database\_Examples/Northwind/PostgreSQL$ 

https://www.w3schools.com/sql/

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## Connect R to postgresql

```
tables
1 categories
2 products
3 suppliers
4 employees
5 orders
6 customers
7 shippers
8 orderdetails
```

# SQL SELECT Statement https://www.w3schools.com/sql/sql\_select.asp SELECT CustomerName, City FROM Customers LIMIT 3;

Table 1: 3 records

customername	city
Alfreds Futterkiste Ana Trujillo Emparedados y helados Antonio Moreno Taquería	Berlin México D.F. México D.F.

```
tbl(con,"customers") %>% select(customername, city) %>%
head(3)
```

```
# Source: SQL [3 x 2]
```

- 1 Alfreds Futterkiste Berlin
- 2 Ana Trujillo Emparedados y helados México D.F.
- 3 Antonio Moreno Taquería México D.F.

# show\_query()

```
tbl(con,"customers") %>% select(customername, city) %>%
    show_query()
```

<SQL>
SELECT "customername", "city"
FROM "customers"

SQL QUERY	dplyr CODE
SELECT * FROM customers	tbl(con,"customers")
SELECT customername FROM customers SELECT customername, city FROM customers	tbl(con, "customers") %>% select(customername) tbl(con, "customers") %>% select(customername, city)
SEEECT customername, city I NOW customers	tbi(con, customers ) /0 / 0 select(customername, city)

#### SQL SELECT DISTINCT Statement

 $https://www.w3schools.com/sql/sql\_distinct.asp$ 

SELECT DISTINCT Country FROM Customers LIMIT 3;

```
Table 2: 3 records
```

country

Argentina Spain Switzerland

```
tbl(con, "customers") %>% distinct(country) %>% head(3)
```

```
# Source: SQL [3 x 1]
```

- # Database: postgres [postgres@localhost:5432/Northwind]
   country
  - <chr>
- 1 Argentina
- 2 Spain
- 3 Switzerland

### **END**

dbDisconnect(con)