Untitled

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Writing SQL with R

 $https://en.wikiversity.org/wiki/Database_Examples/Northwind/PostgreSQL \\ https://www.w3schools.com/sql/$

Connect R to postgresql

[6] "customers"

$SQL\ SELECT\ Statement\ {\it https://www.w3schools.com/sql/sql_select.asp}$

"shippers"

```
SELECT CustomerName, City FROM Customers LIMIT 3;
```

"orderdetails"

Table 1: 3 records

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

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

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

$SQL\ SELECT\ DISTINCT\ Statement\ {\it https://www.w3schools.com/sql/sql_distinct.asp}$

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