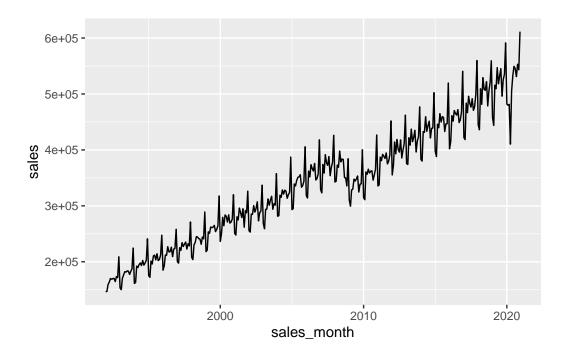
## **Untitled**

```
SELECT sales_month, sales
FROM retail_sales
WHERE kind_of_business = 'Retail and food services sales, total'
ORDER BY 1
```

Table 1: Displaying records 1 - 10

sales_month	sales
1992-01-01	146376
1992-02-01	147079
1992-03-01	159336
1992-04-01	163669
1992-05-01	170068
1992-06-01	168663
1992-07-01	169890
1992-08-01	170364
1992-09-01	164617
1992-10-01	173655

```
retail_sales <- tbl(pg, "retail_sales")
retail_sales %>%
  filter(kind_of_business == 'Retail and food services sales, total') %>%
  select(sales_month, sales) %>%
  arrange(sales_month) %>%
  ggplot(aes(x = sales_month, y = sales)) +
  geom_line()
```



```
SELECT date_part('year',sales_month) as sales_year
,sum(sales) as sales
FROM retail_sales
WHERE kind_of_business = 'Retail and food services sales, total'
GROUP BY 1
;
```

Table 2: Displaying records 1 - 10

sales	sales_year
4439733	2007
4085746	2005
2014102	1992
4598302	2011
5215656	2014
4294359	2006
4284968	2010
3378906	2001
6218002	2019
6001623	2018

```
retail_sales %>%
  filter(kind_of_business == 'Retail and food services sales, total') %>%
  mutate(sales_year = date_part('year', sales_month)) %>%
  group_by(sales_year) %>%
  summarize(sales = sum(sales, na.rm = TRUE)) %>%
  arrange(sales_year) %>%
  ggplot(aes(x = sales_year, y = sales)) +
  geom_line()
```

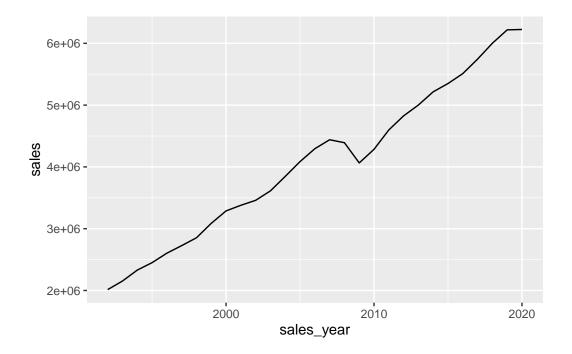
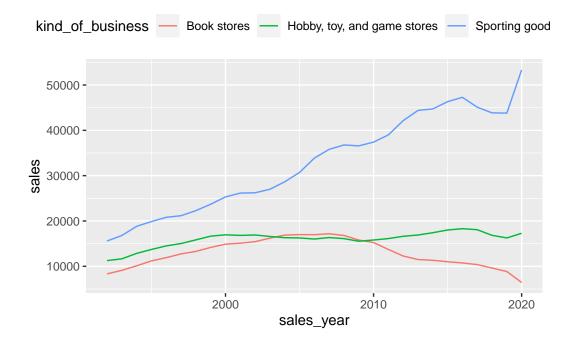


Table 3: Displaying records 1 - 10

$sales\_year$	kind_of_business	sales
1992	Sporting goods stores	15583
1992	Hobby, toy, and game stores	11251
1992	Book stores	8327
1993	Hobby, toy, and game stores	11651
1993	Sporting goods stores	16791
1993	Book stores	9108
1994	Sporting goods stores	18825
1994	Book stores	10107
1994	Hobby, toy, and game stores	12850
1995	Hobby, toy, and game stores	13714



SELECT sales\_month, kind\_of\_business, sales
FROM retail\_sales
WHERE kind\_of\_business IN ('Men''s clothing stores','Women''s clothing stores')
ORDER BY 1,2;

Table 4: Displaying records 1 - 10

sales_month	kind_of_business	sales
1992-01-01	Men's clothing stores 70	
1992-01-01	Women's clothing stores 18	
1992-02-01	Men's clothing stores	658
1992-02-01	Women's clothing stores 199	
1992-03-01	Men's clothing stores	731
1992-03-01	Women's clothing stores	2403
1992-04-01	Men's clothing stores	816
1992-04-01	Women's clothing stores	2665
1992-05-01	Men's clothing stores	856
1992-05-01	Women's clothing stores	2752

retail\_sales %>%
 filter(kind\_of\_business %in% c("Men's clothing stores",

```
"Women's clothing stores")) %>%
select(sales_month, kind_of_business, sales) %>%
arrange(sales_month) %>%
ggplot(aes(x = sales_month, y = sales, color = kind_of_business)) +
geom_line() +
theme(legend.position = "top")
```

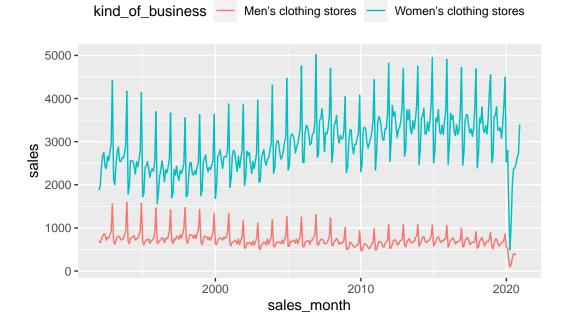


Table 5: Displaying records 1 - 10

sales_year	kind_of_business	sales
1992	Men's clothing stores	10179
1992	Women's clothing stores	31815
1993	Men's clothing stores	9962

sales_year	kind_of_business	sales
1993	Women's clothing stores	32350
1994	Men's clothing stores	10032
1994	Women's clothing stores	30585
1995	Men's clothing stores	9315
1995	Women's clothing stores	28696
1996	Men's clothing stores	9546
1996	Women's clothing stores	28238

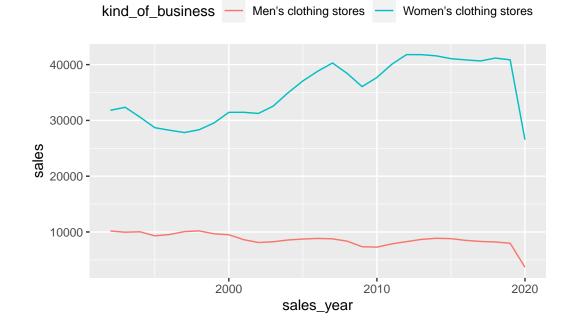


Table 6: Displaying records 1 - 10

sales_year	womens_sales	mens_sales
1992	31815	10179
1993	32350	9962
1994	30585	10032
1995	28696	9315
1996	28238	9546
1997	27822	10069
1998	28332	10196
1999	29549	9667
2000	31447	9507
2001	31453	8625

## arrange(sales\_year) %>% collect(n = 10) %>%

knitr::kable()

womens_sales	mens_sales	sales_year
31815	10179	1992
32350	9962	1993
30585	10032	1994
28696	9315	1995
28238	9546	1996
27822	10069	1997
28332	10196	1998
29549	9667	1999
31447	9507	2000
31453	8625	2001