

Trabajo Final 9219

Salvador Halave Cubillo

Angel Gabriel Camacho Cruz

Quarto

Quarto enables you to weave together content and executable code into a finished document. To learn more about Quarto see <https://quarto.org>.

Running Code

When you click the **Render** button a document will be generated that includes both content and the output of embedded code. You can embed code like this:

```
# 1. Remover los objetos
rm(list = ls())

# 2. Instalar paquetes
#install.packages("data.table", dependencies = T)

library(data.table)

# 3. Descargar tablas de datos
#pop <- fread("https://repodatos.atdt.gob.mx/CONAPO/proyecciones/00_Pob_Mitad_1950_2070.csv")
pop <- fread("D:/ArchivosUNAM/6to Semestre/Demografia/Tarea1/00_Pob_Mitad_1950_2070.csv")

# 4. Exploración de la tabla de población
table(pop$ENTIDAD)
```

| | | | |
|----------------|-----------------|---------------------|----------|
| Aguascalientes | Baja California | Baja California Sur | Campeche |
| 22220 | 22220 | 22220 | 22220 |
| Chiapas | Chihuahua | Ciudad de México | Coahuila |
| 22220 | 22220 | 22220 | 22220 |

| | | | |
|----------|-----------|--------------|-----------------|
| Colima | Durango | Guanajuato | Guerrero |
| 22220 | 22220 | 22220 | 22220 |
| Hidalgo | Jalisco | México | Michoacán |
| 22220 | 22220 | 22220 | 22220 |
| Morelos | Nayarit | Nuevo León | Oaxaca |
| 22220 | 22220 | 22220 | 22220 |
| Puebla | Querétaro | Quintana Roo | San Luis Potosí |
| 22220 | 22220 | 22220 | 22220 |
| Sinaloa | Sonora | Tabasco | Tamaulipas |
| 22220 | 22220 | 22220 | 22220 |
| Tlaxcala | Veracruz | Yucatán | Zacatecas |
| 22220 | 22220 | 22220 | 22220 |

```
table(pop$CVE_GEO)
```

```

  1    2    3    4    5    6    7    8    9   10   11   12   13
22220 22220 22220 22220 22220 22220 22220 22220 22220 22220 22220 22220 22220
 14   15   16   17   18   19   20   21   22   23   24   25   26
22220 22220 22220 22220 22220 22220 22220 22220 22220 22220 22220 22220 22220
 27   28   29   30   31   32
22220 22220 22220 22220 22220 22220
```

```
table(pop$ANIO)
```

```

1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985
7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040
1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001
7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040
2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017
7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040
2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033
7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040
2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049
7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040
2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065
7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040 7040
2066 2067 2068 2069 2070
7040 7040 7040 7040 7040
```

```
names(pop)
```

```
[1] "REGLON"          "ANIO"            "ENTIDAD"  
[4] "CVE_GEO"         "EDAD"            "SEXO"  
[7] "POBLACION"       "ENTIDAD_FEDERATIVA" "FECHA"
```

```
sum(pop$POBLACION)
```

```
[1] 11781123754
```

You can add options to executable code like this

```
[1] 4
```

The `echo: false` option disables the printing of code (only output is displayed).