

MVLU COLLEGE

PRACTICAL NO. 2

Aim: Creating datasets from raw data (text files, CSV files, Excel sheets) and importing data into SAS/SPSS/R.

The screenshot shows the RStudio environment with a dataset named 'Cleaned_BMW_Sales_Data' loaded. The dataset has 99 observations and 11 variables. The variables are: model, year, region, color, fuel_type, transmission, engine_size_l, mileage_km, price_usd, sales_volume, and sale. The console displays the R version 4.5.2 (2025-10-31 ucrt) -- "[Not] Part in a Rumble" copyright (C) 2025 The R Foundation for Statistical Computing Platform: x86_64-w64-mingw32/x64. The console also displays the R license information: R is free software and comes with ABSOLUTELY NO WARRANTY. You are welcome to redistribute it under certain conditions. Type 'license()' or 'licence()' for distribution details. Natural language support but running in an English locale.

model	year	region	color	fuel_type	transmission	engine_size_l	mileage_km	price_usd	sales_volume	sale
1	5 Series	2016	Asia	Red	Petrol	Manual	3.5	151748	96740	8300
2	i8	2013	North America	Red	Hybrid	Automatic	1.6	121671	79219	3428
3	5 Series	2022	North America	Blue	Petrol	Automatic	4.5	10991	113265	6994
4	X3	2024	Middle East	Blue	Petrol	Automatic	1.7	27255	60971	4047
5	7 Series	2020	South America	Black	Diesel	Manual	2.1	122131	49898	3080
6	5 Series	2017	Middle East	Silver	Diesel	Manual	1.9	171362	42926	1232
7	i8	2022	Europe	White	Diesel	Manual	1.8	196741	55064	7949
8	M5	2014	Asia	Black	Diesel	Automatic	1.6	121156	102778	632
9	X3	2016	South America	White	Diesel	Automatic	1.7	48073	116482	8944
10	i8	2019	Europe	White	Electric	Manual	3.0	35700	96257	4411
11	3 Series	2012	Middle East	White	Electric	Manual	2.4	101595	117995	500
12	i8	2016	North America	Blue	Hybrid	Manual	1.9	116863	74539	8252
13	7 Series	2020	North America	Silver	Diesel	Automatic	3.8	27403	100015	8111
14	5 Series	2020	Africa	White	Electric	Manual	2.3	163444	119486	4668
15	X1	2017	Asia	Black	Electric	Automatic	1.6	107918	34078	7291
16	M3	2014	North America	Silver	Hybrid	Manual	3.0	154050	94997	7765
17	X5	2013	Asia	Blue	Electric	Manual	2.6	110142	114844	5561
18	M5	2017	North America	Red	Diesel	Automatic	2.6	86900	81934	9755

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The screenshot shows the RStudio interface with the following components:

- Source Editor:** Contains R code for loading and viewing data.

```
> library(readr)
> Cleaned_Car_Price_Prediction <- read_csv("C:/Users/DELL/Desktop/siya/Cleaned_Car_Price_Prediction.csv")
Rows: 199 Columns: 10
  Column specification
  Delimiter: ","
chr (5): brand, fuel_type, transmission, condition, model
dbl (5): car_id, year, engine_size, mileage, price

Use 'spec()' to retrieve the full column specification for this data.
Specify the column types or set 'show_col_types = FALSE' to quiet this message.
> View(Cleaned_Car_Price_Prediction)
> library(readxl)
> Cleaned_Student_Performance <- read_excel("C:/Users/DELL/Desktop/siya/Cleaned_Student_Performance.xlsx")
> View(Cleaned_Student_Performance)
> |
```
- Environment Pane:** Shows two loaded datasets:
 - Cleaned_Car_Price_Prediction: 199 obs. of 10 variables
 - Cleaned_Student_Performance: 399 obs. of 20 variables
- Console:** Displays the output of the R code execution, including the column specification for the car data.
- Taskbar:** Shows the Windows taskbar with the search bar, task view button, and various application icons. The system tray shows the date and time as 11/24/2025, 6:13 PM.

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RStudio

File Edit Code View Plots Session Build Debug Profile Tools Help

Go to file/function Addins Project: (None)

Untitled1 × Cleaned_Car_Price_Prediction × Cleaned_Student_Performance ×

Filter

	hours_studied	attendance	parental_involvement	access_to_resources	extracurricular_activities	sleep_hours	previous_scores	motivation_level	internet_access	tutoring_sessions	family_income
1	23	84	Low	High	No	7	73	Low	Yes	0	Low
2	19	64	Low	Medium	No	8	59	Low	Yes	2	Medium
3	24	98	Medium	Medium	Yes	7	91	Medium	Yes	2	Medium
4	29	89	Low	Medium	Yes	8	98	Medium	Yes	1	Medium
5	19	92	Medium	Medium	Yes	6	65	Medium	Yes	3	Medium
6	19	88	Medium	Medium	Yes	8	89	Medium	Yes	3	Medium
7	29	84	Medium	Low	Yes	7	68	Low	Yes	1	Low
8	25	78	Low	High	Yes	6	50	Medium	Yes	1	High
9	17	94	Medium	High	No	6	80	High	Yes	0	Medium
10	23	98	Medium	Medium	Yes	8	71	Medium	Yes	0	High
11	17	80	Low	High	No	8	88	Medium	No	4	Medium
12	17	97	Medium	High	Yes	6	87	Low	Yes	2	Low
13	21	83	Medium	Medium	Yes	8	97	Low	Yes	2	Medium
14	9	82	Medium	Medium	Yes	8	72	Medium	Yes	2	Medium
15	10	78	Medium	High	Yes	8	74	Medium	Yes	1	Low
16	17	68	Medium	Medium	No	8	70	Medium	Yes	2	Medium
17	14	60	Medium	Low	Yes	10	65	Low	Yes	0	High
18	22	70	Low	Medium	Yes	6	82	Medium	Yes	1	Low
19	15	80	Medium	Medium	Yes	9	91	Low	Yes	3	Low

Showing 1 to 19 of 399 entries, 20 total columns

Console

29°C Mostly clear 6:14 PM 11/24/2025