

```
from google.colab import files
uploaded = files.upload()
```

Choose Files school\_stu..plicates.xlsx  
**school\_students\_duplicates.xlsx**(application/vnd.openxmlformats-officedocument.spreadsheetml.sheet) - 6222 bytes, last modified: 11/4/2025 - 100%  
done  
Saving school\_students\_duplicates.xlsx to school\_students\_duplicates (1).xlsx

```
import pandas as pd
```

```
df = pd.read_excel("school_students_duplicates.xlsx")
```

```
print("---- Original Data (with duplicates) ----")
display(df)
```

---- Original Data (with duplicates) ----

	Student_ID	Name	Class	Section	Age	Gender	Marks	Email	Phone	
0	S001	Arjun Mehta	10	A	15.0	Male	88.0	arjun.mehta@gmail.com	9.876543e+09	
1	S002	Priya Sharma	9	B	14.0	Female	92.0	priya.sharma@gmail.com	9.876543e+09	
2	S003	arjun mehta	10	A	15.0	male	88.0	arjun.mehta@gmail.com	9.876543e+09	
3	S004	Rahul Verma	10	A	16.0	Male	76.0	rahulv@gmail.com	9.876543e+09	
4	S005	Sneha Reddy	9	B	14.0	Female	95.0	sneha_reddy@gmail.com	9.876543e+09	
5	S006	Pooja Nair	8	C	NaN	Female	84.0	poojanair@gmail.com	9.876543e+09	
6	S007	Aman Gupta	10	A	15.0	Male	78.0	amangupta@gmail.com	NaN	
7	S008	Rahul Verma	10	A	16.0	Male	76.0	rahulv@gmail.com	9.876543e+09	
8	S009	Priya Sharma	9	B	14.0	Female	NaN	priya.sharma@gmail.com	9.876543e+09	
9	S010	Sneha Reddy	9	B	14.0	FEMALE	95.0	sneha_reddy@gmail.com	9.876543e+09	
10	S011	Kiran Kumar	8	C	13.0	Male	82.0	kirank@gmail.com	9.876543e+09	
11	S012	Arjun Mehta	10	A	15.0	Male	88.0	arjun.mehta@gmail.com	9.876543e+09	

Next steps: [Generate code with df](#) [New interactive sheet](#)

```
df_cleaned = df.drop_duplicates()
```

```
print("---- Cleaned Data (duplicates removed) ----")
display(df_cleaned)
```

---- Cleaned Data (duplicates removed) ----

	Student_ID	Name	Class	Section	Age	Gender	Marks	Email	Phone	
0	S001	Arjun Mehta	10	A	15.0	Male	88.0	arjun.mehta@gmail.com	9.876543e+09	
1	S002	Priya Sharma	9	B	14.0	Female	92.0	priya.sharma@gmail.com	9.876543e+09	
2	S003	arjun mehta	10	A	15.0	male	88.0	arjun.mehta@gmail.com	9.876543e+09	
3	S004	Rahul Verma	10	A	16.0	Male	76.0	rahulv@gmail.com	9.876543e+09	
4	S005	Sneha Reddy	9	B	14.0	Female	95.0	sneha_reddy@gmail.com	9.876543e+09	
5	S006	Pooja Nair	8	C	NaN	Female	84.0	poojanair@gmail.com	9.876543e+09	
6	S007	Aman Gupta	10	A	15.0	Male	78.0	amangupta@gmail.com	NaN	
7	S008	Rahul Verma	10	A	16.0	Male	76.0	rahulv@gmail.com	9.876543e+09	
8	S009	Priya Sharma	9	B	14.0	Female	NaN	priya.sharma@gmail.com	9.876543e+09	
9	S010	Sneha Reddy	9	B	14.0	FEMALE	95.0	sneha_reddy@gmail.com	9.876543e+09	
10	S011	Kiran Kumar	8	C	13.0	Male	82.0	kirank@gmail.com	9.876543e+09	
11	S012	Arjun Mehta	10	A	15.0	Male	88.0	arjun.mehta@gmail.com	9.876543e+09	

Next steps: [Generate code with df\\_cleaned](#) [New interactive sheet](#)

```
print("Rows before:", len(df))
print("Rows after :", len(df_cleaned))
```

```
Rows before: 12  
Rows after : 12
```

```
df_cleaned.to_excel("school_students_cleaned.xlsx", index=False)  
print("✅ Cleaned file saved as school_students_cleaned.xlsx")
```

```
✅ Cleaned file saved as school_students_cleaned.xlsx
```