

BITÁCORA

1

LIMPIEZA DE DATOS

Comenzamos con la limpieza de datos, para saber con que datos podíamos trabajar para sacar los kpis. Nos encontramos con columnas con muchos datos NULL, también varios datos que correspondían a otros países y ciudades diferentes a Madrid- España.

```
#Obtenemos las columnas cuya suma de valores nulos es mayor a 1000
nulldata = df_airbnb.isnull().sum()
print(nulldata[nulldata > 1000].sort_values(ascending=False))
```

```
#A pesar de que el dataset es de Madrid podemos observar como hay otros países y ciudades
print(pd.unique(df_airbnb["Country"]))

print(pd.unique(df_airbnb["City"]))
```

2

DECIDIR CON CUALES DATOS TRABAJAREMOS

Tomamos la decisión de cuales datos son los mas completos y los cuales nos ayudarían a definir nuestro Storytelling, Kpis, las supociones iniciales.

3

DEFINIR E IMPLEMENTAR EL DATAWAREHOUSE

Utilizarmos Dbeaver con PostgreSQL para importar el csv; al crear la consulta sql para importar el csv limpio nos dió un error que no pudimos solucionar con Dbeaver, decimos utilizar PgAdmin y se pudo importar el csv con la consulta que habíamos realizado.

SQL Error [42501]: ERROR: must be superuser or a member of the pg_read_server_files role to COPY from a file
Hint: Anyone can COPY to stdout or from stdin. psql's \copy command also works for anyone.
Error position:

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PostgreSQL 15

airbnb

Costs

View Catalog

Insert Trigger

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Language

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airbnb

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4

REGRESION LINEAL

Al realizar la regresión lineal al principio no incluimos el dato de la cantidad de habitaciones que tenía cada alojamiento, dándonos cuenta posteriormente que había que incluirlo para que diera valores reales.

```
rsquared = multi_regression.score(x_train, y_train)
print(f'Training data r-squared: {rsquared:.2}')
```

```
# Sin beds da r = 0.25 se decide incluir beds
```

```
[239] Training data r-squared: 0.29
```

```
rsquared = multi_regression.score(x_train, y_train)
print(f'Training data r-squared: {rsquared:.2}')
```

```
# Sin beds da r = 0.29 se decide añadir el numero de camas
```

```
[ ] Training data r-squared: 0.31
```

```
example = pd.DataFrame.from_dict({'Bedrooms':4,'Bathrooms':1,'Beds':4})
prediction = multi_regression.predict(example)[0]
print(f'According to the model, a home with 3 bedrooms, 3 beds and 1 bathroom would cost {prediction:.2f}/night')
```

```
[ ] According to the model, a home with 3 bedrooms, 3 beds and 1 bathroom would cost 137.40/night
```