

EXPERIMENT-14

Aim: To execute pandas program to replace find missing values in a given dataframe which do not have any valuable information.

Pseudocode:

- 1) Import libraries: import the pandas library.
- 2) create Dataframe: create a dataframe with missing values represented as placeholders like ?, -, or NaN.
- 3) Replace missing values: use the replace() method to replace placeholders with NaN and then fill NaN using fillna()
- 4) Display updated dataframe.

Sample Input:

Dataframe of (ord\_no, purch\_amt, ord\_date, customer\_id, salesman\_id)

Sample output:

	ord_no	purch_amt	ord_date	cust_id	salesman_id
0	70001-0	150.50	unknown	3002	5002-0
1	0-0	270.65	2012-09-10	3001	5003-0
2	70002-0	63.26	unknown	3001	unknown
3	700040	110.50	2012-08-17	3003	5001-0
4	0-0	948.50	2012-09-10	3002	unknown
5	70005-0	2400.60	2012-09-27	3001	5002-0
6	0-0	5760.00	2012-09-10	3001	5001-0
7	70010-0	12.43	unknown	3004	5003-0
8	70012-0	2480.40	2012-06-27	3002	5002-0
9	0-0	250.45	2012-08-17	3001	5003-0
10	70013-0	3045.60	2012-04-25	3001	unknown

Result: Therefore the pandas execution for replace missing values executed successfully.

query lab

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```
df['salesman_id'].fillna('Unknown', inplace=True)
df['ord_date'].fillna('Unknown', inplace=True)

# Step 4: Display the DataFrame after replacing missing values
print(df)
```

	ord_no	purch_amt	ord_date	customer_id	salesman_id
0	70001.0	150.50	Unknown	3002	5002.0
1	0.0	270.65	2012-09-10	3001	5003.0
2	70002.0	65.26	Unknown	3001	Unknown
3	70004.0	110.50	2012-08-17	3003	5001.0
4	0.0	948.50	2012-09-10	3002	Unknown
5	70005.0	2400.60	2012-07-27	3001	5002.0
6	0.0	5760.00	2012-09-10	3001	5001.0
7	70010.0	12.43	Unknown	3004	5003.0
8	70012.0	2480.40	2012-06-27	3002	5002.0
9	0.0	250.45	2012-08-17	3001	5003.0
10	70013.0	3045.60	2012-04-25	3001	Unknown

<ipython-input-19-da416d2bb86d>:16: FutureWarning: Downcasting behavior in 'replace' is deprecated and will be removed in a future version. To retain

df.replace(['?', '--'], np.nan, inplace=True)

<ipython-input-19-da416d2bb86d>:19: FutureWarning: A value is trying to be set on a copy of a DataFrame or Series through chained assignment using an

The behavior will change in pandas 3.0. This inplace method will never work because the intermediate object on which we are setting values always beha

For example, when doing 'df[col].method(value, inplace=True)', try using 'df.method(col=value, inplace=True)' or df[col] = df[col].method(value) in

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