

```
import pandas as pd
import numpy as np
```

```
data = {
    'ord_no': [70001.0, 5002.0, 5003.0, 70004.0, np.nan, 70005.0, 70010.0, 70003.0, 70012.0, np.nan, 70013.0],
    'purch_amt': [150.50, np.nan, 65.26, 110.50, 948.50, 2400.60, 5760.00, 1983.43, 2480.40, 75.29, 3045.60],
    'ord_date': ['2012-10-05', '2012-09-10', np.nan, '2012-08-17', '3 2min', '2012-07-27', '2012-09-10', '2012-10-10', '2012-06-27', '2012-08-17', '2012-04-25'],
    'customer_id': [3002, 3001, 3001, 3003, 3002, 3001, 3004, 3003, 3002, 3001, 3001],
    'salesman_id': [5002.0, 5003.0, 3001, np.nan, 5002.0, 5001.0, np.nan, 5003.0, 5002.0, 3001, np.nan]
}
```

```
df = pd.DataFrame(data)
df['ord_no'].fillna(0, inplace=True)
df['purch_amt'].fillna(0, inplace=True)
df['ord_date'].fillna("Unknown", inplace=True)
df['customer_id'].fillna("Unknown", inplace=True)
df['salesman_id'] = df['salesman_id'].fillna(0).astype(int).astype(str) # Convert to string
df['salesman_id'].replace('0', 'Unknown', inplace=True) # Replace '0' with 'Unknown'
print(df)
```

IDLE Shell 3.12.0

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Python 3.12.0 (tags/v3.12.0:0fb18b0, Oct 2 2023, 13:03:39) [MSC v.1935 64 bit (AMD64)] on win32
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```
>>>
= RESTART: C:/Users/ARTHI/OneDrive/Documents/Query Processing/find and replace the missing values[Q14].py
ord_no  purch_amt  ord_date  customer_id  salesman_id
0    70001.0    150.50  2012-10-05      3002         5002
1     5002.0      0.00  2012-09-10      3001         5003
2     5003.0     65.26    Unknown      3001         3001
3    70004.0    110.50  2012-08-17      3003        Unknown
4         0.0    948.50      3 2min      3002         5002
5    70005.0    2400.60  2012-07-27      3001         5001
6    70010.0    5760.00  2012-09-10      3004        Unknown
7    70003.0    1983.43  2012-10-10      3003         5003
8    70012.0    2480.40  2012-06-27      3002         5002
9         0.0     75.29  2012-08-17      3001         3001
10   70013.0    3045.60  2012-04-25      3001        Unknown
>>> |
```

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