

Business Analytics Programming Fall 2019, Midterm # 2 - Answers

Version A

1. What is the value of x?

```
1 df2=df[['text','b']]
2
```

or

```
1 df2=dt[['text','b']]
2
```

or

```
1 df2=df.loc[:,['text','b']]
2
```

or

```
1 df2=dt.loc[:,['text','b']]
2
```

2. 30

3. 30

```
4 df=json_normalize(A,'B')
2
```

5. [0,1,2,4.2,4]

```
6 df.groupby('Candy')['Price'].sum()
2
```

```
7 df.loc[(df.Candy=='dove') & (df.Sales<160) & (df.Sales
>110), 'Price'] = 15
2
```

or

```
1 dft=df.loc[(df.Sales<160) & (df.Sales>110)]
2 dft.loc[dft.Candy=='dove', 'Price']=15
3
```

8. 3

9. 6

10. 60

11. error

12. 7

13. C

14. E

Version B

1. E

2. B

3. error

4. error

5. What is the value of x?

```
1 df2=df[['text','a']]
2
```

or

```
1 df2=dt[['text','a']]
2
```

or

```
1 df2=df.loc[:,['text','a']]
2
```

or

```
1 df2=dt.loc[:,['text','a']]
2
```

6. 1

7. 5

```
8. df=json_normalize(D,'C')
2
```

9. [0,1,5.5,3,4]

```
10. df.groupby('Candy')['Price'].mean()
2
```

```
11. df.loc[(df.Candy=='twix') & (df.Sales<140) & (df.Sales
>90), 'Price'] = 8
2
```

or

```
1 dft=df.loc[ (df.Sales<140) & (df.Sales>90)]  
2 dft.loc[dft.Candy=='twix','Price']=8  
3
```

12. 11

13. 14

14. 80

Version C

1. What is the value of x?

```
1 df2=df[['text','b']]  
2
```

or

```
1 df2=dt[['text','b']]  
2
```

or

```
1 df2=df.loc[:,['text','b']]  
2
```

or

```
1 df2=dt.loc[:,['text','b']]  
2
```

2. 2

3. 4

4. `df=json_normalize(B,'a')`

2

5. [0,2.5,2,3,4]

6. `df.groupby('Candy')['Price'].max()`

2

7. `df.loc[(df.Candy=='snickers') & (df.Sales<120) & (df.Sales>70),'Price'] = 10`

2

or

```

1 dft=df.loc[ (df.Sales<120) & (df.Sales>70)]
2 dft.loc[dft.Candy=='snickers','Price']=10
3

```

8. 4

9. 18

10. 120

11. error

12. error

13. C

14. E

Version D

1. E

2. B

3. error

4. error

5. What is the value of x?

```

1 df2=df[['text','a']]
2

```

or

```

1 df2=dt[['text','a']]
2

```

or

```

1 df2=df.loc[:,['text','a']]
2

```

or

```

1 df2=dt.loc[:,['text','a']]
2

```

6. 1

7. 1

8. `df=json_normalize(C,'D')`

9. [2.5,1,2,3,4]

10. `df.groupby('Candy')['Price'].sum()`

2

11. `df.loc[(df.Candy=='mounds') & (df.Sales<100) & (df.Sales>50), 'Price'] = 5`

2

or

1 `dft=df.loc[(df.Sales<100) & (df.Sales>50)]`

2 `dft.loc[dft.Candy=='mounds', 'Price']=5`

3

12. 5

13. 15

14. 140