Quiz 3

Q1 For the data frames shown below:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| df1 | | | |  | df2 | | |
|  | A | B | C |  | C | D |
| 1 | A1 | B1 | C1 | 1 | C1 | D1 |
| 2 | A2 | B2 | C2 | 2 | C2 | D2 |
|  |  |  |  | 3 | C3 | D3 |

Q1 What is the result of the merge of the two data frames?

A B C D

0 A1 B1 C1 D1

1 A2 B2 C2 D2

Q2 What is the result of the outer merge of the two data frames?

A B C D

0 A1 B1 C1 D1

1 A2 B2 C2 D2

2 NaN NaN D3 D3

Q3 What is the result of the left merge of the two data frames?

A B C D

0 A1 B1 C1 D1

1 A2 B2 C2 D2

Q4 What is the result of the right merge of the two data frames?

A B C D

0 A1 B1 C1 D1

1 A2 B2 C2 D2

2 NaN NaN C3 D3

For the data frames shown below:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| df1 | | | |  | df2 | | |
|  | A | B | C |  |  | C | D |
| 1 | A1 | B1 | C1 |  | 1 | C1 | D1 |
| 2 | A2 | B2 | C1 |  | 2 | C2 | D2 |
|  |  |  |  |  | 3 | C1 | D3 |

Q5 What is the result of the merge of the two data frames?

A B C D

0 A1 B1 C1 D1

1 A1 B1 C1 D3

2 A2 B2 C1 D1

3 A2 B2 C1 D3

For the data frame shown below:

|  |  |  |
| --- | --- | --- |
|  | Name | Score |
| 0 | A | 1 |
| 1 | B | 10 |
| 2 | A | 2 |
| 3 | B | 20 |
| 4 | A | 3 |
| 5 | B | 30 |

Q6 What is the result of the groupby’s count with Name used for the grouping?

Score

A 3

B 3

Q7 What is the result of the groupby’s sum with Name used for the grouping?

Score

A 6

B 60

Q8 What is the result of the pivot\_table with name used for the index?

Score

A 2

B 20

For the data frame shown below:

|  |  |  |  |
| --- | --- | --- | --- |
|  | Name | Term | Score |
| 0 | A | 1 | 1 |
| 1 | B | 1 | 10 |
| 2 | A | 1 | 3 |
| 3 | B | 1 | 20 |
| 4 | A | 2 | 4 |
| 5 | B | 2 | 30 |
| 6 | A | 2 | 6 |
| 7 | B | 2 | 40 |

Q9 What is the result of the groupby’s count with Name and Term used for grouping?

Score

Name Term

A 1 2

2 2

B 1 2

2 2

Q10 What is the result of groupby’s sum with Name and Term used for grouping?

Score

Name Term

A 1 4

2 10

B 1 30

2 70

Q11 What is the result of the pivot\_table with Name and Term used for the index?

Score

Name Term

A 1 2

2 5

B 1 15

2 35

Q12 What is the result of the pivot\_table with Name as the index and Term as the columns?

Score

Term 1 2

Name

A 2 5

B 15 35