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Part 1:

1) names of sailors who did not reserve boat 103

$$\pi_{\text{name}} (\sigma_{\text{bid} \neq 103} (\text{sailors} \bowtie \text{reserves}))$$

2) names of sailors who reserved a blue boat on 03/13/2020

$$\pi_{\text{name}} (\sigma_{\text{color} = \text{blue} \wedge \text{day} = 03/13/2020} (\text{sailors} \bowtie \text{reserves} \bowtie \text{boats}))$$

Part 2:

$$R = ABCDE \quad F = \{A \rightarrow C, E \rightarrow D, B \rightarrow C\}$$

candidate keys: $\{ABE\}$

Part 3:

A	B	C	D
1	8	2	4
1	5	2	4
5	1	1	4
6	1	1	8
6	2	3	8
5	4	1	4
1	3	2	4
5	1	3	4
6	1	3	8