1. Znormalizuj poniższą tabelę.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| IDPracownika | NazwaLekarza | IDPacjenta | NazwaPacjenta | DataGodzinaWizyty | IDZabiegu | NazwaZabiegu |
| |  | | --- | | S1011 | | |  | | --- | | Maria Nowak | | |  | | --- | | P100 | | |  | | --- | | Anna Jeleń | | |  | | --- | | 12.03.2020 10.00 | | |  | | --- | | Z500 | | |  | | --- | | Borowanie | |
| |  | | --- | | S1011 | | |  | | --- | | Maria Nowak | | |  | | --- | | P105 | | |  | | --- | | Jarosław Nicpoń | | |  | | --- | | 12.03.2020 13.00 | | |  | | --- | | Z496 | | |  | | --- | | Lakowanie | |
| |  | | --- | | S1011 | | |  | | --- | | Maria Nowak | | |  | | --- | | P108 | | |  | | --- | | Joanna Nosek | | |  | | --- | | 14.03.2020 10.00 | | |  | | --- | | Z500 | | |  | | --- | | Borowanie | |
| |  | | --- | | S1024 | | |  | | --- | | Jan Kowalski | | |  | | --- | | P108 | | |  | | --- | | Joanna Nosek | | |  | | --- | | 16.03.2020 17.00 | | |  | | --- | | Z503 | | |  | | --- | | Lakowanie | |
| |  | | --- | | S1045 | | |  | | --- | | Anna Jabłońska | | |  | | --- | | P120 | | |  | | --- | | Jan Kałuża | | |  |  | | --- | --- | |  | 18.03.2020 09.00 | | |  | | --- | | Z500 | | |  | | --- | | Borowanie | |
| |  | | --- | | S1034 | | |  | | --- | | Marek Potocki | | |  | | --- | | P130 | | |  | | --- | | Jerzy Lis | | |  | | --- | | 20.03.2020 08.00 | | |  | | --- | | Z496 | | |  | | --- | | Lakowanie | |
| |  | | --- | | S1034 | | |  | | --- | | Marek Potocki | | |  | | --- | | P123 | | |  | | --- | | Olga Nowacka | | |  | | --- | | 12.03.2020 15.00 | | |  | | --- | | Z503 | | |  | | --- | | Usuwanie kamienia | |

|  |  |  |
| --- | --- | --- |
| IdPacjenta PK | ImiePacjenta | NazwiskoPacjenta |
| P100 | Anna | Jeleń |
| P105 | Jarosław | Nicpoń |
| P108 | Joanna | Nosek |
| P120 | Jan | Kałuża |
| P130 | Jerzy | Lis |
| P123 | Olga | Nowacka |

|  |  |  |
| --- | --- | --- |
| IdLekarza PK | ImieLekarza | NazwiskoLekarza |
| S1011 | Maria | Nowak |
| S1024 | Jan | Kowalski |
| S1045 | Anna | Jabłońska |
| S1034 | Marek | Potocki |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| IdWizyty PK | Data | Godzina | IdPacjenta FK | IdLekarza FK | IdZabiegu FK |
| 1 | 12.03.2020 | 10.00 | P100 | S1011 | Z500 |
| 2 | 12.03.2020 | 13.00 | P105 | S1011 | Z496 |
| 3 | 14.03.2020 | 10.00 | P108 | S1011 | Z500 |
| 4 | 16.03.2020 | 17.00 | P108 | S1024 | Z496 |
| 5 | 18.03.2020 | 09.00 | P120 | S1045 | Z500 |
| 6 | 20.03.2020 | 08.00 | P130 | S1034 | Z496 |
| 7 | 12.03.2020 | 15.00 | P123 | S1034 | Z503 |

|  |  |
| --- | --- |
| IdZabiegu PK | NazwaZabiegu |
| Z500 | Borowanie |
| Z496 | Lakowanie |
| Z503 | Usuwanie kamienia |

2. Znormalizuj poniższą tabelę.

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | NazwaProduktu | | |  | | --- | | Dostawca1 | | |  | | --- | | Dostawca2 | | |  | | --- | | AdresDostawcy1 | | |  | | --- | | AdresDostawcy2 | | |  | | --- | | Cena | |
| |  | | --- | | Makaron Nitki | | |  | | --- | | Makarony Polskie | | |  | | --- | | Lubelski Makaron | | |  | | --- | | Turystyczna 40, 31-435 Kraków | | |  | | --- | | Piłsudskiego 332a, 04-242 Lublin | | |  | | --- | | Netto 130 zł, brutto 150 zł | |
| |  | | --- | | Keczup pikantny | | |  | | --- | | Polskie przetwory | | |  | | --- | | Przetwory pomidorowe | | |  | | --- | | Wojska Polskiego 44a, 31-342 Kraków | | |  | | --- | | Rolnicza 22/4 30-243 Tarnów | | |  | | --- | | Netto 200 zł, brutto 220 zł | |
| |  | | --- | | Sos pomidorowy | | |  | | --- | | Polskie przetwory | | |  | | --- | | Małopolskie smaki | | |  | | --- | | Wojska Polskiego 44a, 31-342 Kraków | | |  | | --- | | Mickiewicza 223/77, 35-434 Nowy Targ | | |  | | --- | | Netto 89 zł, brutto 110 zł | |

|  |  |
| --- | --- |
| IDProduktu PK | NazwaProduktu |
| P1 | Makaron Nitki |
| P2 | Keczup pikantny |
| P3 | Sos pomidorowy |

|  |  |  |
| --- | --- | --- |
| IDDostawcy PK | NazwaDostawcy | IDAdresu FK |
| D1 | Makarony Polskie | A1 |
| D2 | Polskie przetwory | A2 |
| D3 | Lubelski Makaron | A3 |
| D4 | Przetwory pomidorowe | A4 |
| D5 | Małopolskie smaki | A5 |

|  |  |  |
| --- | --- | --- |
| IDCeny PK | CenaNetto | CenaBrutto |
| C1 | 130 zł | 150 zł |
| C2 | 200 zł | 220 zł |
| C3 | 89 zł | 110 zł |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| IDAdresu PK | Ulica | NumerBudynku | MIasto | KodPocztowy |
| A1 | Turystyczna | 40 | Kraków | 31-435 |
| A2 | Wojska Polskiego | 44a | Kraków | 31-342 |
| A3 | Piłsudskiego | 332a | Lublin | 04-242 |
| A4 | Rolnicza | 22/4 | Tarnów | 30-243 |
| A5 | Mickiewicza | 223/7 | Nowy Targ | 35-434 |

|  |  |  |  |
| --- | --- | --- | --- |
| IDZamowienia PK | IDProduktu FK | IDCeny FK | IDDostawcy FK |
| Z1 | P3 | C3 | D4 |
| Z2 | P2 | C2 | D1 |
| Z3 | P1 | C1 | D2 |
| Z4 | P1 | C1 | D3 |
| Z5 | P2 | C2 | D4 |
| Z6 | P3 | C3 | D1 |