Ulric Aird

Normalization Activity

Original Table

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **staffNo** | **dentistName** | **patientNo** | **patientName** | **appointment date** | **appointment time** | **surgeryNo** |
| S1011 | Tony Smith | P100 | Gillian White | 12-Aug-03 | 10:00 | S10 |
| S1011 | Tony Smith | P105 | Jill Bell | 13-Aug-03 | 12:00 | S15 |
| S1024 | Helen Pearson | P108 | Ian MacKay | 12-Sep-03 | 10:00 | S10 |
| S1024 | Helen Pearson | P108 | Ian MacKay | 14-Sep-03 | 10:00 | S10 |
| S1032 | Robin Plevin | P105 | Jill Bell | 14-Oct-03 | 16:30 | S15 |
| S1032 | Robin Plevin | P110 | John Walker | 15-Oct-03 | 18:00 | S13 |

Dentist Table

Since there is a relationship between ‘staffNo’ and ‘dentistName’, we can say that ‘staffNo’ is the primary key for the dentist.

|  |  |
| --- | --- |
| **staffNo** | **dentistName** |
| S1011 | Tony Smith |
| S1024 | Helen Pearson |
| S1032 | Robin Plevin |

Staff Table

Since the dentist may have staff members working with him, we create a table that contains all the staff members with their staff id.

|  |  |  |
| --- | --- | --- |
| **staffId** | **staffNo** | **staffName** |
| 1 | S1011 | John Cole |
| 2 | S1011 | Jane Smith |
| 3 | S1024 | Mark Naber |
| 4 | S1024 | Taylor Swipe |
| 5 | S1032 | Harry Ice |
| 6 | S1032 | Ray Mark |

Patients Table

Since there is a relationship between the ‘patientNo’ and the ‘patientName’, we can say that the ‘patientNo’ is the primary key for the patient.

|  |  |
| --- | --- |
| **patientNo** | **patientName** |
| P100 | Gillian White |
| P105 | Jill Bell |
| P108 | Ian MacKay |
| P110 | John Walker |

Surgery Table

A table containing the information about the type of surgeries where the ‘surgeryNo’ is the primary key.

|  |  |
| --- | --- |
| **surgeryNo** | **SurgeryName** |
| S10 | Tooth Removal |
| S13 | Dental Implant |
| S15 | Root Canal |

Appointment Table

This contains the information for the appointment, where we have staffNo, patientNo and surgeryNo, as a foreign key from the different tables mentioned.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **appointmentId** | **staffNo** | **patientNo** | **appointment date** | **appointment time** | **surgeryNo** |
| 1 | S1011 | P100 | 12-Aug-03 | 10:00 | S10 |
| 2 | S1011 | P105 | 13-Aug-03 | 12:00 | S15 |
| 3 | S1024 | P108 | 12-Sep-03 | 10:00 | S10 |
| 4 | S1024 | P108 | 14-Sep-03 | 10:00 | S10 |
| 5 | S1032 | P105 | 14-Oct-03 | 16:30 | S15 |
| 6 | S1032 | P110 | 15-Oct-03 | 18:00 | S13 |