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1  /*
2  Student: Jordan Laing 19487922
3  Date: 18/02/20
4  */
5
6  /*
7  This table records the staff within the company.
8  they are given a staffID to be able to reference them and make all users unique
9  The role and the gender colums also have constraints on the inputs that are accepted
10 */
11 CREATE TABLE STAFF
12 (
13   StaffId CHAR(2) PRIMARY KEY,
14   FirstName VARCHAR(20),
15   LastName VARCHAR(20),
16   Role VARCHAR(15) CHECK(Role IN('GP','Surgeon','Reception','GP Intern','Nurse','Senior
17   Nurse','Nurse Intern','Marketing')),
18   Gender CHAR(1) CHECK(Gender IN('M','F')),
19   DateJoined DATE NOT NULL,
20   DateLeft DATE /*this is able to be null since the staff may have joined but not left*/
21 );
22
23 /*a table to list all speciality that each employee can be.Its given an id so it can be
24 referenced*/
25 CREATE TABLE SPECIALITY
26 (
27   SpecId CHAR(4) PRIMARY KEY,
28   SpecName VARCHAR(25),
29   SpecNotes VARCHAR(100)
30 );
31
32 /*Organises the charge using a code to be later referenced in another table*/
33 CREATE TABLE CHARGES
34 (
35   ChrgCode CHAR(7) PRIMARY KEY,
36   ChrgDescription VARCHAR(80) NOT NULL,
37   Duration NUMBER(2) NOT NULL CHECK(Duration <= 60),
38   HourlyRate NUMBER(3) CHECK(HourlyRate < 400)
39 );
40
41 /*This tables bring the SpecID from the speciality table and teh StaffID from the staff
42 table to create a composite key*/
43 CREATE TABLE STAFF_SPECIALITY
44 (
45   StaffId CHAR(2) REFERENCES STAFF(StaffId),
46   SpecId CHAR(4) REFERENCES SPECIALITY(SpecId),
47   DateQualified DATE NOT NULL,
48   ValidTillDate DATE,
49   Details VARCHAR(100),
50   PRIMARY KEY(StaffId,SpecId)
51 );
52
53 /*this also creates a composite key using Chrgcode and StaffID from teh Charges and
54 Staff tables*/
55 CREATE TABLE CONSULTATION
56 (
57   ChrgCode CHAR(7) REFERENCES CHARGES(ChrgCode),
58   StaffId CHAR(2) REFERENCES STAFF(StaffId),
59   DateConsulted DATE NOT NULL,
60   StartTime NUMBER(4,2),
61   PatientNo CHAR(7),
62   PRIMARY KEY(ChrgCode,StaffId)
63 );
64
65 /*Staff Data Insert*/
66 INSERT INTO STAFF(StaffId,FirstName,LastName,Role,Gender,DateJoined)
67 VALUES (1,'Homer','Simpson','GP','M','21-Apr-2015');
68 INSERT INTO STAFF(StaffId,FirstName,LastName,Role,Gender,DateJoined)

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66 VALUES (2,'Marge','Simpson','Reception','F','27-Apr-2015');
67 INSERT INTO STAFF(StaffId,FirstName,LastName,Role,Gender,DateJoined)
68 VALUES (3,'Apu','Nahasapeemapetilon','Surgeon','M','14-May-2015');
69 INSERT INTO STAFF(StaffId,FirstName,LastName,Role,Gender,DateJoined)
70 VALUES (4,'Kent','Brockman','Marketing','M','14-May-2015');
71 INSERT INTO STAFF(StaffId,FirstName,LastName,Role,Gender,DateJoined)
72 VALUES (5,'Patty','Bouvier','Reception','F','23-Mar-2016');
73 INSERT INTO STAFF(StaffId,FirstName,LastName,Role,Gender,DateJoined)
74 VALUES (6,'Selma','Bouvier','Senior Nurse','F','27-Mar-2016');
75 INSERT INTO STAFF(StaffId,FirstName,LastName,Role,Gender,DateJoined)
76 VALUES (7,'Ned','Flanders','Nurse','M','18-Oct-2016');
77 INSERT INTO STAFF
78 VALUES (8,'Ralph','Wiggum','Marketing','M','23-Jan-2017','24-Jun-2017');
79 INSERT INTO STAFF(StaffId,FirstName,LastName,Role,Gender,DateJoined)
80 VALUES (9,'Montgomery','Burns','Marketing','M','3-Feb-2017');
81 INSERT INTO STAFF
82 VALUES (10,'Lisa','Simpson','GP','F','4-Dec-2017','17-Aug-2018');
83 INSERT INTO STAFF(StaffId,FirstName,LastName,Role,Gender,DateJoined)
84 VALUES (11,'Disco','Stu','Nurse Intern','M','27-Mar-2018');
85 INSERT INTO STAFF(StaffId,FirstName,LastName,Role,Gender,DateJoined)
86 VALUES (12,'Jordan','Laing','Nurse Intern','M','2-Mar-2020');
87
88
89 /*Speciality Data Insert*/
90 INSERT INTO SPECIALITY
91 VALUES (0123,'General Consultancy','Includes all areas as a GP');
92 INSERT INTO SPECIALITY
93 VALUES (0124,'Emergency Care','Can perform minor surgeries');
94 INSERT INTO SPECIALITY
95 VALUES (0125,'Vaccination','Generally taken care of by nurse');
96 INSERT INTO SPECIALITY
97 VALUES (0126,'Tests','Collect samples for testing as required by GP or Surgeon');
98 INSERT INTO SPECIALITY
99 VALUES (0127,'Repeat Prescription','Generally taken care of by a nurse');
100
101
102 /*Charges Data Insert*/
103 INSERT INTO Charges
104 VALUES (0081,'General GP consultation for registered patients',20,180);
105 INSERT INTO Charges
106 VALUES (0082,'General GP consultation for casual patients',20,360);
107 INSERT INTO Charges
108 VALUES (0085,'Emergency Medical Care for registered or casual patients',30,0);
109 INSERT INTO Charges
110 VALUES (0086,'Vaccination or Test collection for registered patients',15,0);
111 INSERT INTO Charges
112 VALUES (0088,'Vaccination or Test collection for casual patients',15,40);
113 INSERT INTO Charges
114 VALUES (0089,'Repeat Prescription',5,5);
115
116
117 /*Consultation Data Insert*/
118 INSERT INTO Consultation
119 VALUES (0082,1,'1-Sep-2018',8.30,'A012345');
120 INSERT INTO Consultation
121 VALUES (0085,3,'4-Sep-2018',9.45,'N333333');
122 INSERT INTO Consultation
123 VALUES (0085,7,'6-Sep-2018',9.45,'I445566');
124 INSERT INTO Consultation
125 VALUES (0086,7,'6-Sep-2018',10.30,'K222333');
126 INSERT INTO Consultation
127 VALUES (0089,12,'7-Sep-2018',10.45,'A343434');
128
129
130 /*Staff_Speciality Data Insert*/
131 INSERT INTO STAFF_SPECIALITY
132 VALUES (1,0123,'24-Apr-2014','23-Apr-2024','General Practitioner license renewed');
133 INSERT INTO STAFF_SPECIALITY
134 VALUES (1,0124,'14-May-2016','14-Nov-2021','Certified only to assist a surgery');

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135 INSERT INTO STAFF_SPECIALITY
136 VALUES (3,0124,'01-Aug-2015','31-Jul-2020','Special certification in emergency care');
137 INSERT INTO STAFF_SPECIALITY
138 VALUES (6,0125,'25-Jul-2017','24-Jul-2019','Renewed license');
139 INSERT INTO STAFF_SPECIALITY
140 VALUES (7,0124,'01-Aug-2015','31-Jul-2020','Can assist a surgeon in emergency care');
141 INSERT INTO STAFF_SPECIALITY
142 VALUES (7,0126,'17-Jul-2015','16-Jul-2020','Renewed license');
143 INSERT INTO STAFF_SPECIALITY
144 VALUES (11,0127,'01-Aug-2017','31-Aug-2018','Intern under training');
145 INSERT INTO STAFF_SPECIALITY
146 VALUES (12,0127,'03-Aug-2017','02-Sep-2018','Intern under training');
147
148
149 /*Queries*/
150 /*Displays all the tables that are stored on the database*/
151 SELECT table_name
152 FROM user_tables;
153
154 /*Displays the structure of the specified table(staff,speciality,...)*/
155 DESCRIBE staff;
156 DESCRIBE speciality;
157 DESCRIBE charges;
158 DESCRIBE consultation;
159 DESCRIBE staff_speciality;
160
161 /*Displays the uploaded data currently in the specified database and doesnt filter the
data displayed*/
162 SELECT *
163 FROM staff;
164 SELECT *
165 FROM speciality;
166 SELECT *
167 FROM charges;
168 SELECT *
169 FROM consultation;
170 SELECT *
171 FROM staff_speciality;
172
173 /*displays the data from the staff table and filters the collums that it displays*/
174 /*it combines the first and last name of the staff using ||' '|| to display 'Full Name'*/
175 SELECT staffid "Staff Id",firstname||' '||lastname "Staff Full Name",datejoined "Date
Joined",dateleft "Date Left"
176 FROM staff
177 ORDER BY firstname ASC;

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