|  |  |
| --- | --- |
| **Project: New Haven Urgent Care Team# 9** | |
|  | **Test Date: 12/09** |
| **Test Case ID#: 19** | **Name(s) of Tester(s): Brandon Xu** |
| **Test Description (What are you testing? – you must be specific):**   * Are patients related to one and only one department? * Can a department be related to more than one employee? * Can patients have many emergency contacts and can emergency contacts have many patients? * Can an emergency contact be related to zero patients? |  |
|  |  |

**Test Data (Provide the file name of the script used to insert data, provide a screen capture to reflect data, or provide script here):**

/\* Create a department \*/

INSERT INTO Department(Id, Name)

VALUES (1, 'Surgery');

/\* Create a department \*/

INSERT INTO Department(Id, Name)

VALUES (2, 'Pediatrics');

/\* Insert an employee that works in department 1 \*/

INSERT INTO Employee(EId, Ssn, FName, MName, LName, DId)

VALUES (2, 182347628, 'Jane', 'Woman', 'Doe', 1);

/\* Insert an employee that works in department 2 \*/

INSERT INTO Employee(EId, Ssn, FName, MName, LName, DId)

VALUES (3, 182347232, 'Julia', 'Woman', 'Doe', 2);

/\* Insert an employee that works in department 2 \*/

INSERT INTO Employee(EId, Ssn, FName, MName, LName, DId)

VALUES (4, 182237628, 'Johnny', 'Woman', 'Doe', 2);

/\* Insert an emergency contact\*/

INSERT INTO EmergencyContact(EId, FName, MName, LName)

VALUES (0, 'John', 'Man', 'Doe');

/\* Insert an emergency contact\*/

INSERT INTO EmergencyContact(EId, FName, MName, LName)

VALUES (1, 'Jane', 'Woman', 'Doe');

/\* Insert a second emergency contact\*/

INSERT INTO Patient(PId, FName, MName, LName, House\_number, Street, City, State, Zip, Day, Month, Year, Has\_insurance)

VALUES (0, 'Brandon', 'Z', 'Xu', '220','Delaware St SE','Minneapolis','MN', '55455', '3', '10', '1999', false);

/\* Insert a second emergency contact\*/

INSERT INTO Patient(PId, FName, MName, LName, House\_number, Street, City, State, Zip, Day, Month, Year, Has\_insurance)

VALUES (1, 'David', 'P', 'Xu', '220','Delaware St SE','Minneapolis','MN', '55455', '1', '21', '2004', true);

**SQL Query(s) used for testing:**

/\* Insert an employee without providing a department id. This should fail because it DId has a not null constraint.

Pass: Insert statement returned an error message

Error Message: Field 'DId' doesn't have a default value \*/

INSERT INTO Employee(EId, Ssn, FName, MName, LName)

VALUES (1, 1234567899, 'John', 'Man', 'Doe');

/\* More than one employee can work for the same department

Pass: Query returned more than one employee for department 2\*/

SELECT EId, DId

FROM Employee;

/\* Tie together patient and 'Jane' emergency contact \*/

INSERT PatientHasEmergencyContact(EId, PId, Relationship)

VALUES (1, 0, 'Aunt');

/\* Tie together patient and ‘John’ emergency contact

Pass: System allows more than one patient to be tied to a emergency contact\*/

INSERT PatientHasEmergencyContact(EId, PId, Relationship)

VALUES (1, 1, 'Aunt');

/\* Tie together patient and 'Jane' emergency contact

Pass: System allows more than one emergency contact to be tied to a patient\*/

INSERT PatientHasEmergencyContact(EId, PId, Relationship)

VALUES (0, 1, 'Uncle');

/\* Insert more than one emergency contact for patient 0 and insert more than one patient for emergency contact 0.

Pass: Insert statements succeed. \*/

SELECT \*

FROM PatientHasEmergencyContact