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| **Project: New Haven Urgent Care Team# 9** | |
|  | **Test Date: 12/4** |
| **Test Case ID#: 1** | **Name(s) of Tester(s): Brandon** |
| **Test Description (What are you testing? – you must be specific):**     * Can underage patients and parents be tied together? * When a patient under the age of 18 is added, is a parent automatically created? * Can a parent be tied to more than one child? * Can a child be tied to more than one parent? |  |
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**Test Data (Provide the file name of the script used to insert data, provide a screen capture to reflect data, or provide script here):**

/\* Insert underage patient without a parent\*/

INSERT INTO Patient(PId, FName, LName, Day, Month, Year)

VALUES(0, 'Aaron', 'Hank', 3, 4, 2010);

/\* Insert underage patient and parent, and tie them together\*/

INSERT INTO Patient(PId, FName, LName, Day, Month, Year)

VALUES(1, 'Frank', 'Abagnale', 1, 21, 2010);

/\* Insert parent \*/

INSERT INTO Parent(Parent\_id, FName, LName)

VALUES(0, 'Frank', 'Abagnale Sr.');

/\* Tie together parent and patient \*/

INSERT INTO PatientHasParent(Parent\_id, PId, Relationship)

VALUES(0, 1, 'Father');

/\* Insert underage patient \*/

INSERT INTO Patient(PId, FName, LName, Day, Month, Year)

VALUES(2, 'Brandon', 'Xu', 1, 1, 2008);

/\* Insert parent with PId 1\*/

INSERT INTO Parent(Parent\_id, FName, LName)

VALUES(1, 'James', 'Xu');

/\* Tie together patient 2 with parent 1\*/

INSERT INTO PatientHasParent(Parent\_id, PId, Relationship)

VALUES(1, 2, 'Father');

/\* Tie passenger 2 to parent 0\*/

INSERT INTO PatientHasParent(Parent\_id, PId, Relationship)

VALUES(0, 2, 'Father');

/\* Add fourth patient \*/

INSERT INTO Patient(PId, FName, LName, Day, Month, Year)

VALUES(3, 'David', 'Xu',1,1,2009);

/\* Connect fourth underage patient to a parent 1\*/

INSERT INTO PatientHasParent(Parent\_id, PId, Relationship)

VALUES(1, 3, 'Father');

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

/\* Test if parent is automatically tied to an underage patient.

Fail: Query returns empty table. System allows a minor to be added without a parent tied to it. Parent is not automatically created automatically. \*/

SELECT \*

FROM PatientHasParent

WHERE PId = 0;

/\* Test if a parent can be tied to a underage patient.

Pass: PatientHasParent ties the parent and patient entities together with foreign keys. Table returns the PId and Parent\_id of the two relations that are related.

\*/

SELECT PT.PId, PR.Parent\_id, PT.FName, PT.LName, PR.FName, PR.LName

FROM PatientHasParent as PHP, Parent as PR, Patient as PT

WHERE PHP.PId = 1 AND PHP.PId = PT.PId AND PHP.Parent\_id = PR.Parent\_id;

/\* Test if more than one parent can be tied to a patient

Pass: The query to PatientHasParent returns multiple entries with the PId = 2.

\*/

SELECT PT.PId, PR.Parent\_id, PT.FName, PT.LName, PR.FName, PR.LName

FROM PatientHasParent as PHP, Parent as PR, Patient as PT

WHERE PHP.PId = 2 AND PHP.PId = PT.PId AND PHP.Parent\_id = PR.Parent\_id;

/\* Test if more than one patient can be tied to a parent

Pass: The query to PatientHasParent returns multiple entries with the Parent\_id = 1.

\*/

SELECT PT.PId, PR.Parent\_id, PT.FName, PT.LName, PR.FName, PR.LName

FROM PatientHasParent as PHP, Parent as PR, Patient as PT

WHERE PHP.Parent\_id = 1 AND PHP.PId = PT.PId AND PHP.Parent\_id = PR.Parent\_id;