

Project: New Haven Urgent Care

Team#

Test Case ID#: 1

Test Date: 2019/12/12

Name(s) of Tester(s): JunRen Huang

Test Description (What are you testing? – you must be specific): I test if all patients under the age of 18 must have a parent or guardian in the system.

NOTE: The following information must be provided to be given credit for any test.

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 into PARENT_GUARDIAN

values (1, 'Ken', 'K', 'JIAN', 'Minnesota', null, null);

insert into PATIENT

values (001, 'wang', 'k', 'xi', null, null, null, 'xxxx', '1001-01-01', 19);

insert into PATIENT

values (002, 'wan', 'k', 'xian', null, null, null, 'xxx', '1001-02-02', 10);

insert into PATIENT

values (003, 'wa', 'k', 'xiang', null, null, null, 'xxxx', '1001-02-02', 100);

insert into RELATE

values (1, 2);

insert into MINOR

values (002, 'wan', 'k', 'xian', null, null, null, 'xxx', '1001-02-02', 10);

insert into MINOR

values (003, 'wa', 'k', 'xiang', null, null, null, 'xxxx', '1001-02-02', 100);

SQL Query(s) used for testing:
SELECT *

FROM MINOR

WHERE PID = 2;

The result are following

The screenshot shows the MySQL Workbench interface. The query editor contains the following SQL query:

```
1 SELECT *
2 FROM C4707F19U47.MINOR
3 WHERE PID = 2;
```

The result grid displays the following data:

#	PID	Fname	Minit	Lname	Address_line1	Address_line2	Address_line3	Emergency_info	Dob	Age
1	2	wan	k	xian	DOCK	DOCK	DOCK	DOCK	10...	10

The bottom panel shows the Action Output with the following details:

#	Time	Action	Message	Duration / Fetch
34	19:17:45	SELECT * FROM C4707F19U47.MINOR LIMIT 0, 1000	2 row(s) returned	0.00037 sec / 0.000...
35	19:54:44	SELECT * FROM C4707F19U47.MINOR WHERE PID = 2 LIMIT ...	1 row(s) returned	0.00034 sec / 0.000...

Explain and Discussion

Our design didn't capture the requirement that all patients under the age of 18 must have a parent or guardian in the system. As long as we insert the patient to the PATIENT, we can insert the patient to the MINOR. For example, we have a patient named "Wang", we can insert it to Minor as long as "Wang" exists in PATIENT, but "Wang" doesn't have parent/guardian information. Although "Wang" is a patient under the age of 18, it doesn't have parent/guardian in the system. This is our design mistake, and the reason for this is because our MINOR does not have any direct relation to the PARENT_GUARDIAN.