

Project: New Haven Urgent Care

Team# 13

Test Case ID#: 20

Test Date: 12/10/2020

Name(s) of Tester(s): Jingyi Jin

Test Description (What are you testing? – you must be specific):

**Test at least two FKs for the cardinality numbers that are on the design document
(your choice of Fks) – do we capture the max numbers for the relations?**

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 2 patients in PATIENT table

```
INSERT INTO PATIENT(`Pid`,`Fname`,`Lname`,`Address`,`Emergency_contact`,`Birthdate`)  
VALUES('98765432','John','Smith','742 Evergreen Terrace','5673456789','1995-07-08'),  
VALUES('9acf4d31','Bruce','Wayne','1007 Mountain Drive, Gotham','7351857301','2010-12-17');
```

-- Insert 4 employees in EMPLOYEE table

```
INSERT INTO EMPLOYEE(`Eid`,`Ssn`,`Fname`,`Lname`)  
VALUES('11','11','Amy','ServiceProvider'),  
VALUES('22','22','Blair','ServiceProvider'),  
VALUES('33','33','Charlie','Nurse'),
```

```
VALUES('44','44','Dylan','Nurse');
```

-- Connect Amy ServiceProvider and Blair ServiceProvider with SERVICE_PROVIDER table

```
INSERT INTO SERVICE_PROVIDER(`Sid`)
```

```
VALUES('11'),
```

```
VALUES('22');
```

-- Insert 2 visit records in VISIT_RECORD table

```
INSERT INTO VISIT_RECORD(`Vid`,`Iid`,`Aid`,`Pid`)
```

```
VALUES('12345678','12345678','12345678','98765432'),
```

```
VALUES('12345679','12345679','12345679','98765432');
```

```
INSERT INTO INSURANCE_RECORD(`Iid`,`Cid`)
```

```
VALUES('12345678','22222223'),
```

```
VALUES('12345679','22222223');
```

SQL Query(s) used for testing:

```
DESC PATIENT;
```

Table description shows `Pid` is a primary key.

C4707F20U33 - Warning - not supported

Administration

Schemas

test-18

test-20

test-21

SCHEMAS

Filter objects

C4707F20U33

Tables

ALLERGIES

APPROVAL_FORM

ASSISTED_BY

CLERK

CURRENT_MEDICATIONS

DIAGNOSIS

EMPLOYEE

INITIAL_ASSESSMENT

INSURANCE_RECORD

INSURED_RECORD

NURSE

PARENT_GUARDIAN

PATIENT

PHONE

SERVICE_PROVIDER

SYMPTOMS

TREATMENT_TEST_PROCEDURE

UNINSURED_RECORD

VISIT_RECORD

Views

Stored Procedures

Functions

Limit to 1000 rows

Execute the statement under the keyboard cursor

1

2

3

4

5

6

7

8

9

10

DESC EMPLOYEE;

100%

1:2

Result Grid

Filter Rows: Search

Export:

Field	Type	Null	Key	Default	Extra
Pid	char(8)	NO	PRI	NULL	
Fname	varchar(255)	YES		NULL	
Lname	varchar(255)	YES		NULL	
Address	varchar(255)	YES		NULL	
Emergency_contact	char(10)	YES		NULL	
Birthdate	date	YES		NULL	

Result 2

Read Only

Action Output

	Time	Action	Response	Duration / Fetch Time
1	13:14:52	DESC PA...	6 row(s) returned	0.015 sec / 0.000014...

Query Completed

```
INSERT INTO PATIENT(`Pid`,`Fname`,`Lname`,`Address`)
VALUES(NULL,'John','Smith','742 Evergreen Terrace');
```

The error message proves that `Pid` cannot be null since it is a primary key.

The screenshot shows a database management interface with a left sidebar for 'SCHEMAS' and a main area for query execution. The 'SCHEMAS' sidebar lists a database 'C4707F20U33' with various tables like 'ALLERGIES', 'APPROVAL_FORM', 'ASSISTED_BY', etc. The main area displays a SQL query with line numbers 1 through 15. The query includes a comment, a table description, an insert statement for the 'PATIENT' table (line 3), and several insert statements for the 'EMPLOYEE' table (lines 11, 12, 14, 15). The 'PATIENT' insert statement is highlighted in blue. Below the query, the 'Action Output' section shows a table with columns 'Time', 'Action', 'Response', and 'Duration / Fetch Time'. A single row of data is displayed, indicating an error: 'Error Code: 1048. Column 'Pid' cannot be null'. The status bar at the bottom indicates 'Query interrupted'.

```
1 • DESC PATIENT;
2
3 • INSERT INTO PATIENT(`Pid`,`Fname`,`Lname`,`Address`)
4   VALUES(NULL,'John','Smith','742 Evergreen Terrace');
5
6 • INSERT INTO PATIENT(`Pid`,`Fname`,`Lname`,`Address`,`Emergency_contact`,`Birthdate`)
7   VALUES('98765432','DuplicateJohn','DuplicateSmith','Duplicate 742 Evergreen Terrace','5673456789','1995-07-08');
8
9 • DESC EMPLOYEE;
10
11 • INSERT INTO EMPLOYEE(`Eid`,`Ssn`,`Fname`,`Lname`)
12   VALUES(NULL,'11','Amy','ServiceProvider');
13
14 • INSERT INTO EMPLOYEE(`Eid`,`Ssn`,`Fname`,`Lname`)
15   VALUES('11','1111','DuplicateAmy','DuplicateServiceProvider');
```

	Time	Action	Response	Duration / Fetch Time
✖ 1	13:15:07	INSERT I...	Error Code: 1048. Column 'Pid' cannot be null	0.015 sec

Query interrupted

```
INSERT INTO PATIENT(`Pid`,`Fname`,`Lname`,`Address`)
VALUES('98765432','DuplicateJohn','DuplicateSmith','Duplicate 742 Evergreen Terrace');
```

The error message proves that `Pid` needs to be unique since it is a primary key.

The screenshot shows a SQL IDE interface with the following components:

- Top Bar:** Displays the database name 'C4707F20U33' and a warning 'Warning - not supported'.
- Left Panel (SCHEMAS):** A tree view showing the database structure. The 'Tables' section is expanded, listing various tables including ALLERGIES, APPROVAL_FORM, ASSISTED_BY, CLERK, CURRENT_MEDICATIONS, DIAGNOSIS, EMPLOYEE, INITIAL_ASSESSMENT, INSURANCE_RECORD, INSURED_RECORD, NURSE, PARENT_GUARDIAN, PATIENT, PHONE, SERVICE_PROVIDER, SYMPTOMS, TREATMENT_TEST_PROCEDURE, UNINSURED_RECORD, and VISIT_RECORD.
- Query Editor:** Contains a SQL script with 15 lines. Line 6 is highlighted, showing the INSERT statement for the PATIENT table. The script also includes DESCRIBE statements and other INSERT operations for the EMPLOYEE table.
- Action Output:** A table showing the execution results. It contains one row with an error:

	Time	Action	Response	Duration / Fetch Time
1	13:16:04	INSERT I...	Error Code: 1062. Duplicate entry '98765432' for key 'PRIMARY'	0.016 sec
- Status Bar:** At the bottom, it indicates 'Query interrupted'.

```
DESC EMPLOYEE;
```

Table description shows `Eid` is a primary key.

C4707F20U33 - Warning - not supported

Administration

Schemas

test-18

test-20

test-21

SCHEMAS

Filter objects

C4707F20U33

Tables

ALLERGIES

APPROVAL_FORM

ASSISTED_BY

CLERK

CURRENT_MEDICATIONS

DIAGNOSIS

EMPLOYEE

INITIAL_ASSESSMENT

INSURANCE_RECORD

INSURED_RECORD

NURSE

PARENT_GUARDIAN

PATIENT

PHONE

SERVICE_PROVIDER

SYMPTOMS

TREATMENT_TEST_PROCEDURE

UNINSURED_RECORD

VISIT_RECORD

Views

Stored Procedures

Functions

Limit to 1000 rows

2

3

4

5

6

7

8

9

10

11

100%

1:10

Result Grid

Filter Rows: Search

Export:

Field	Type	Null	Key	Default	Extra
Eid	char(8)	NO	PRI	NULL	
Ssn	char(9)	YES	UNI	NULL	
Fname	varchar(255)	YES		NULL	
Lname	varchar(255)	YES		NULL	

Result 3

Read Only

Action Output

	Time	Action	Response	Duration / Fetch Time
1	13:15:53	DESC EM...	4 row(s) returned	0.015 sec / 0.000018...

Query Completed


```
INSERT INTO EMPLOYEE(`Eid`,`Ssn`,`Fname`,`Lname`)
VALUES(NULL,'11','Amy','ServiceProvider');
```

The error message proves that `Eid` cannot be null since it is a primary key.

The screenshot shows a database management tool interface. On the left, a tree view displays the database schema for 'C4707F20U33', including tables like ALLERGIES, APPROVAL_FORM, ASSISTED_BY, CLERK, CURRENT_MEDICATIONS, DIAGNOSIS, EMPLOYEE, INITIAL_ASSESSMENT, INSURANCE_RECORD, INSURED_RECORD, NURSE, PARENT_GUARDIAN, PATIENT, PHONE, SERVICE_PROVIDER, SYMPTOMS, TREATMENT_TEST_PROCEDURE, UNINSURED_RECORD, and VISIT_RECORD. The main area shows a SQL query editor with the following code:

```
1 • DESC PATIENT;
2
3 • INSERT INTO PATIENT(`Pid`,`Fname`,`Lname`,`Address`)
4   VALUES(NULL,'John','Smith','742 Evergreen Terrace');
5
6 • INSERT INTO PATIENT(`Pid`,`Fname`,`Lname`,`Address`)
7   VALUES('98765432','DuplicateJohn','DuplicateSmith','Duplicate 742 Evergreen Terrace');
8
9 • DESC EMPLOYEE;
10
11 • INSERT INTO EMPLOYEE(`Eid`,`Ssn`,`Fname`,`Lname`)
12   VALUES(NULL,'11','Amy','ServiceProvider');
13
14 • INSERT INTO EMPLOYEE(`Eid`,`Ssn`,`Fname`,`Lname`)
15   VALUES('11','1111','DuplicateAmy','DuplicateServiceProvider');
```

The query execution results are shown in the 'Action Output' pane at the bottom. The first row indicates an error:

	Time	Action	Response	Duration / Fetch Time
1	13:16:23	INSERT I...	Error Code: 1048. Column 'Eid' cannot be null	0.015 sec

The status bar at the bottom indicates 'Query interrupted'.

```
INSERT INTO EMPLOYEE(`Eid`,`Ssn`,`Fname`,`Lname`)
VALUES('11','1111','DuplicateAmy','DuplicateServiceProvider');
```

The error message proves that `Eid` needs to be unique since it is a primary key.

The screenshot shows a database management tool interface. On the left, a tree view displays the database schema, including tables like ALLERGIES, APPROVAL_FORM, ASSISTED_BY, CLERK, CURRENT_MEDICATIONS, DIAGNOSIS, EMPLOYEE, INITIAL_ASSESSMENT, INSURANCE_RECORD, INSURED_RECORD, NURSE, PARENT_GUARDIAN, PATIENT, PHONE, SERVICE_PROVIDER, SYMPTOMS, TREATMENT_TEST_PROCEDURE, UNINSURED_RECORD, and VISIT_RECORD. The main area displays a SQL query with line numbers 1 through 15. The query includes two INSERT statements for the PATIENT table and two for the EMPLOYEE table. The second EMPLOYEE INSERT statement is highlighted, showing the attempt to insert a duplicate value for the primary key 'Eid'. Below the query, the 'Action Output' section shows a table with columns 'Time', 'Action', 'Response', and 'Duration / Fetch Time'. The first row indicates an error: 'Error Code: 1062. Duplicate entry '11' for key 'PRIMARY''. The status bar at the bottom indicates 'Query interrupted'.

	Time	Action	Response	Duration / Fetch Time
1	13:16:33	INSERT L...	Error Code: 1062. Duplicate entry '11' for key 'PRIMARY'	0.015 sec

