

The screenshot shows the SQL Server Management Studio interface. In the Object Explorer, under the 'Databases' node for the 'localhost (SQL Server 16.0.1150.1 - Insanity00)' connection, a new database named 'Dentistry1' has been created. The 'Tables' node for 'Dentistry1' is expanded, showing the 'dbo.Employee' table. The 'Employee' table has the following columns:

- employee\_id (PK, int, not null)
- employee\_name (varchar(1), not null)
- birth\_date (date, not null)
- home\_address (char(1), not null)
- phone (int, not null)
- email (char(18), not null)
- hourly\_salary (char(1), not null)
- position (varchar(1), not null)

The 'Messages' pane at the bottom right indicates that the command completed successfully.

```
CREATE DATABASE Dentistry1;
```

Database “Dentistry1” is Created

The screenshot shows the SQL Server Management Studio interface. Under the 'Databases' node for the 'localhost (SQL Server 16.0.1150.1 - Insanity00)' connection, the 'Dentistry1' database is selected. The 'Tables' node for 'Dentistry1' is expanded, showing the 'Employee' table. The 'Employee' table has the following columns:

- employee\_id (PK, int, not null)
- employee\_name (varchar(1), not null)
- birth\_date (date, not null)
- home\_address (char(1), not null)
- phone (int, not null)
- email (char(18), not null)
- hourly\_salary (char(1), not null)
- position (varchar(1), not null)

The 'Messages' pane at the bottom right indicates that the command completed successfully.

```
CREATE TABLE employee (
    employee_id INT PRIMARY KEY NOT NULL,
    employee_name VARCHAR NOT NULL,
    birthdate DATE,
    home_address VARCHAR NOT NULL,
    email CHAR(18) NOT NULL,
    phone INT,
```

Create table “employee”

```

CREATE TABLE patient (
    patient_id INT PRIMARY KEY NOT NULL,
    patient_name VARCHAR NOT NULL,
    birthdate DATE NOT NULL,
    home_address VARCHAR NOT NULL,
    email CHAR(18),
    phone INT NOT NULL,
    patient_records VARCHAR NOT NULL,
);

```

Create table “patient”

```

CREATE TABLE insured_patient (
    patient_id INT FOREIGN KEY REFERENCES patient(patient_id) NOT NULL,
    provider_name VARCHAR NOT NULL,
    provider_phone_number INT NOT NULL,
    policy_number VARCHAR NOT NULL,
);

CREATE TABLE selfPaid_patient (
    patient_id INT FOREIGN KEY REFERENCES patient(patient_id) NOT NULL,
    card_number CHAR(16) NOT NULL,
    card_expiration_date CHAR(5) NOT NULL,
    security_number CHAR(3)NOT NULL,
);

```

Create two tables: “selfPaid\_patient” and “insured\_patient” (subtypes of patient)

The screenshot shows the SQL Server Management Studio interface. In the Object Explorer, a database named 'Dentistry1' is selected. A query window titled 'SQLQuery1.sq... \claud (54)\*' displays the following SQL code:

```
CREATE TABLE patient_visit (
    visit_id INT PRIMARY KEY NOT NULL,
    patient_id INT FOREIGN KEY REFERENCES patient(patient_id) NOT NULL,
    visit_date DATE NOT NULL,
    next_appt DATE,
    cost INT,
    service_provided VARCHAR NOT NULL,
);

CREATE TABLE selfPaid_patient (
    patient_id INT FOREIGN KEY REFERENCES patient(patient_id) NOT NULL,
    card_number CHAR(16) NOT NULL,
    card_expiration_date CHAR(5) NOT NULL,
    security_number CHAR(3)NOT NULL,
);

```

The 'Messages' pane at the bottom right shows the command completed successfully with a completion time of 2025-10-31T15:59:04.3069981-04:00.

Create table "patient\_visit"

The screenshot shows the SQL Server Management Studio interface. In the Object Explorer, a database named 'Dentistry1' is selected. A query window titled 'SQLQuery1.sq... \claud (54)\*' displays the following SQL code:

```
CREATE TABLE patient_visit (
    visit_id INT PRIMARY KEY NOT NULL,
    patient_id INT FOREIGN KEY REFERENCES patient(patient_id) NOT NULL,
    visit_date DATE NOT NULL,
    next_appt DATE,
    cost INT,
    service_provided VARCHAR NOT NULL,
);

CREATE TABLE patient_age (
    patient_id INT FOREIGN KEY REFERENCES patient(patient_id) NOT NULL,
    age INT NOT NULL,
);

```

The 'Messages' pane at the bottom right shows the command completed successfully with a completion time of 2025-10-31T16:03:09.8646590-04:00.

Create table "patient\_age"

```

File Edit View Git Project Tools Extensions Window | Search | Solution1 | X
Dentistry1 | Execute | Copilot | Databases | Tables | System Tables | FileTables | External Tables | Graph Tables | dbo.employee | Columns | Keys | Constraints | Triggers | Indexes | Statistics | dbo.insured_patient | dbo.patient | dbo.patient_age | dbo.patient_visit | dbo.selfPaid_patient | Dropped Ledger Tables | Views | External Resources | Synonyms
Object Explorer | SQLQuery1.sq...|cloud (54)* | X
localhost (SQL Server 16.0.1150.1 - Insanity0) | Databases | Dentistry | Dentistry1 | Tables | Columns | Keys | Constraints | Triggers | Indexes | Statistics | Views | External Resources | Synonyms
ALTER TABLE employee
ADD employee_position VARCHAR NOT NULL;

```

Messages

No issues found

Commands completed successfully.

Completion time: 2025-10-31T16:04:36.1142617-04:00

Ready

Add column “employee\_position” to the table “employee”

```

File Edit View Query Git Project Tools Extensions Window | Search | Solution1 | X
Dentistry1 | Execute | Copilot | Databases | Tables | System Tables | FileTables | External Tables | Graph Tables | dbo.employee | Columns | Keys | Constraints | Triggers | Indexes | Statistics | dbo.insured_patient | dbo.patient | dbo.patient_age | dbo.patient_visit | dbo.selfPaid_patient | Dropped Ledger Tables | Views | External Resources | Synonyms
Object Explorer | SQLQuery1.sq...|cloud (54)* | X
localhost (SQL Server 16.0.1150.1 - Insanity0) | Databases | Dentistry | Dentistry1 | Tables | Columns | Keys | Constraints | Triggers | Indexes | Statistics | Views | External Resources | Synonyms
INSERT INTO employee(employee_id, employee_name, email)
VALUES (010, Ruby, Miller, rMiller@dentistry1.com)
ALTER TABLE employee ADD last_name;
EXEC sp_rename 'employee.employee_name', 'first_name';
EXEC sp_rename 'patient.patient_name', 'first_name';

```

Messages

Caution: Changing any part of an object name could break scripts and stored procedures.

Completion time: 2025-10-31T16:12:03.4958848-04:00

Query executed successfully.

Ready

Renamed the columns “employee\_name” and “patient\_name” to “first\_name”

```

SQLQuery1.sql...cloud (54)* < X
1   INSERT INTO employee(employee_id, first_name, last_name, email, phone, birthdate, 'Jonesboro, GA', employee_position)
2     VALUES
3       (0101, 'Ruby', 'Miller', 'RMiller@dentistry1.com', '4046307070', '1978-06-15', 'Dentist'),
4       (0102, 'James', 'Davis', 'JDavis@dentistry1.com', '7709874118', '1987-10-23', 'Dentist'),
5       (0107, 'Juan', 'Carlos Rodriguez', 'JRodrig@dentistry1.com', '4782153221', '1989-05-29', 'Hygienist'),
6       (0109, 'Ahmed', 'Abara', 'AAbara@dentistry1.com', '678905673', '1979-07-12', 'Hygienist')
7   ;
8
9   ALTER TABLE employee ADD last_name VARCHAR NOT NULL;
10  ALTER TABLE patient ADD last_name VARCHAR NOT NULL;
11
12

```

Messages

Commands completed successfully.

Completion time: 2020-10-31T14:24:08.8474984-04:00

No issues found

Query executed successfully.

Add the columns “last\_name” to the tables “employee” and “patient”

```

SQLQuery1.sql...cloud (54)* < X
1
2   SELECT * FROM employee;
3
4   ALTER TABLE employee
5     ALTER COLUMN first_name VARCHAR(20);
6
7   ALTER TABLE employee
8     ALTER COLUMN last_name VARCHAR(20);
9
10  ALTER TABLE employee
11    ALTER COLUMN employee_position VARCHAR(20);
12
13
14
15
16
17
18

```

Messages

Commands completed successfully.

Completion time: 2020-10-31T14:29:51.4014889-04:00

No issues found

Query executed successfully.

Accepted input length adjusted for “employee” columns of type VARCHAR

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The Object Explorer on the left lists the database structure, including tables like employee, patient, and appointment. The SQL Query1.aspx window on the right contains a script to alter the employee table and insert new data. The status bar at the bottom indicates the command completed successfully.

```
File Edit View Query Git Project Tools Extensions Window Help Search Solution|  
+ Connect - New Query + Execute | Copilot |  
Dentistry1  
Object Explorer  
+ Connect - New Query + Execute | Copilot |  
+ Execute | Copilot |  
SQLQuery1.aspx (dmd (54)) x  
1 ALTER TABLE employee  
2     ALTER COLUMN email VARCHAR(19);  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
+ Employee  
- employee_id (PK, int, not null)  
  first_name (varchar(1), not null)  
  birthdate (date, null)  
  home_address (varchar(1), not null)  
  email (char(18), not null)  
  phone (int, null)  
  employee_position (varchar(1), not null)  
  last_name (varchar(1), not null)  
  CONSTRAINTS  
  Triggers  
  Indexes  
  Statistics  
  Views  
  dbInsured_patient  
  dbInsured_appointment  
  dbInsured_appointment_point  
  dbSelfPaid_patient  
  Dropped Ledger Table  
  Views  
  Common Table Expressions  
  Resource  
  Custom  
100 % 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14  
Messages  
Command completed successfully.  
Completion time: 2023-10-31T14:44:06.4798143+04:00
```

Accepted input length adjusted for “employee” column “email” of type VARCHAR

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The Object Explorer on the left lists the database structure for 'Dentistry1'. The SQL Query Editor window contains the following T-SQL code:

```
1 2 3 4 5 6 7 8 9 10 11 12
INSERT INTO employee(employee_id, first_name, last_name, email, phone, birthdate, home_address, employee_position)
VALUES
(0101, 'Ruby', 'Miller', 'rmill@dentistry.com', '0866387879', '1978-06-15', '123 Somewhere, GA', 'Dentist'),
(0102, 'Sam', 'Harris', 'sharr@dentistry.com', '0866387880', '1985-03-22', '456 Nowhere, GA', 'Dentist'),
(0103, 'Juan', 'Carlos Rodriguez', 'jrodriguez@dentistry.com', '0782152221', '1989-05-20', '543 Main Street, GA', 'Hygienist'),
(0104, 'Ahmed', 'Abbara', 'aabara@dentistry.com', '078905673', '1979-07-12', 'Atlanta, GA', 'Hygienist')

ALTER TABLE employee
ALTER COLUMN home_address VARCHAR(20)
```

The Messages pane at the bottom shows the command was compiled successfully.

Accepted input length adjusted for “employee” column “home\_address” of type VARCHAR

The screenshot shows the Object Explorer on the left with the database 'Dentistry1' selected. The 'Tables' node under 'Dentistry1' is expanded, showing the 'employee' table. The 'SQLQuery1.sql' query window on the right contains the following SQL code:

```

SELECT * FROM employee;
ALTER TABLE employee
DROP COLUMN first_name;
ALTER TABLE employee
DROP COLUMN last_name;
ALTER TABLE employee
ADD COLUMN first_name;

```

The 'Messages' pane at the bottom shows the command completed successfully with a completion time of 2024-10-31T17:47:09.4912800-04:00.

Two “\_name” columns removed from “employee” table

The screenshot shows the Object Explorer on the left with the database 'Dentistry1' selected. The 'Tables' node under 'Dentistry1' is expanded, showing the 'employee' table. The 'SQLQuery1.sql' query window on the right contains the following SQL code:

```

VALUES
(0101, 'Ruby', 'Miller', 'rMill@dentistry.com', '4046307870', '1978-06-15', 'Jonesboro, GA', 'Dentist'),
(0102, 'David', 'Davis', 'dDavis@dentistry.com', '7705574121', '1980-03-18', 'Atlanta, GA', 'Dentist'),
(0107, 'Juan', 'Carlos Rodriguez', 'jRodriguez@dentistry.com', '40792153221', '1988-06-29', 'Marietta, GA', 'Hygienist'),
(0109, 'Ahmed', 'Albara', 'ahabar@dentistry.com', '678990673', '1979-07-12', 'Atlanta, GA', 'Hygienist')
;

SELECT * FROM employee;
ALTER TABLE employee
ADD employee_name VARCHAR(20) NOT NULL;

```

The 'Messages' pane at the bottom shows the command completed successfully with a completion time of 2024-10-31T17:50:40.9639466-04:00.

Column “employee\_name” added to “employee” table

The screenshot shows the SSMS interface with the following details:

- Object Explorer:** Shows the database structure for "Dentistry1".
- SQLQuery1.sql (claud (54)):**

```

1  ALTER TABLE employee
2      ALTER COLUMN phone BIGINT;
3
4  INSERT INTO employee(employee_id, employee_name, email, phone, birthdate, home_address, employee_position)
5      VALUES
6          ('0181', 'Baby Miller', 'mlil@dentistry.com', 48638799, '1978-06-15', 'Bensenville, IL', 'Hygienist'),
7          ('0182', 'James Davis', 'jbaud@dentistry.com', 778697418, '1987-10-23', 'Atlanta, GA', 'Dentist'),
8          ('0187', 'Juan Carlos', 'jCarl@dentistry.com', 478215321, '1989-05-29', 'Marietta, GA', 'Dentist'),
9          ('0189', 'Ahmed Abara', 'akbar@dentistry.com', 678905673, '1979-07-12', 'Atlanta, GA', 'Hygienist')
10
11  SELECT * FROM employee;
12
13
14
15

```
- Results pane:** Displays the results of the query, showing 4 rows.
- Error List:** Shows 0 errors, 0 warnings, and 0 messages.

Column “phone” in “employee” table adjusted to have value type BIGINT.

Four rows added to “employee” table.

Full table “employee” is requested and shown.

The screenshot shows the SSMS interface with the following details:

- Object Explorer:** Shows the database structure for "Dentistry1".
- SQLQuery1.sql (claud (56)):**

```

1  EXEC sp_rename 'patient.first_name', 'patient_name';
2
3  ALTER TABLE patient
4      DROP COLUMN last_name;
5
6  INSERT INTO patient(patient_id, patient_name, birthdate, home_address, email, phone, patient_re)
7      VALUES
8
9
10

```
- Messages pane:** Shows a warning about changing object names and the completion time.
- Results pane:** Displays the results of the query, showing 0 rows.
- Error List:** Shows 3 errors, 0 warnings, and 0 messages.

In table “patient”, “first\_name” column renamed to “patient\_name” and “last\_name” column dropped.

```

ALTER TABLE patient
ALTER COLUMN patient_records VARCHAR(100)
ALTER COLUMN patient_name VARCHAR(25)
ALTER COLUMN home_address VARCHAR(25)

INSERT INTO patient(patient_id, patient_name, birthdate, home_address, email, phone, patient_records)
VALUES ('001', 'India Johnson', '1985-08-09', 'Kennesaw, GA', 'india@outlook.com', '4798415602', 'two (2) cavity fillings, 2018-08-18'),
       ('002', 'India Johnson', '1985-08-09', 'Kennesaw, GA', 'india@outlook.com', '4798415602', 'two (2) cavity fillings, 2018-08-18'),
       ('003', 'India Johnson', '1985-08-09', 'Kennesaw, GA', 'india@outlook.com', '4798415602', 'two (2) cavity fillings, 2018-08-18'),
       ('004', 'Dante Redding', '1998-01-21', 'Eden, GA', 'd.redding@gmail.com', '7798415603', 'cavity filling, 2018-09-04'),
       ('005', 'Dante Redding', '1998-01-21', 'Eden, GA', 'd.redding@gmail.com', '7798415603', 'cavity filling, 2018-09-04'),
       ('006', 'Dante Redding', '1998-01-21', 'Eden, GA', 'd.redding@gmail.com', '7798415603', 'cavity filling, 2018-09-04'),
       ('007', 'James Brown', '1995-08-07', 'Atlanta, GA', 'jbrown79@gmail.com', '4802799898', 'root canal, 2020-05-15')

```

Columns “patient\_records”, “patient\_name”, and “home\_address” in table “patient” are adjusted to accept large character lengths.

```

ALTER TABLE patient
ALTER COLUMN patient_name VARCHAR(25)
ALTER COLUMN home_address VARCHAR(25)

INSERT INTO patient(patient_id, patient_name, birthdate, home_address, email, phone, patient_records)
VALUES ('001', 'India Johnson', '1985-08-09', 'Kennesaw, GA', 'india@outlook.com', '4798415602', 'two (2) cavity fillings, 2018-08-18'),
       ('002', 'India Johnson', '1985-08-09', 'Kennesaw, GA', 'india@outlook.com', '4798415602', 'two (2) cavity fillings, 2018-08-18'),
       ('003', 'India Johnson', '1985-08-09', 'Kennesaw, GA', 'india@outlook.com', '4798415602', 'two (2) cavity fillings, 2018-08-18'),
       ('004', 'Dante Redding', '1998-01-21', 'Eden, GA', 'd.redding@gmail.com', '7798415603', 'cavity filling, 2018-09-04'),
       ('005', 'Dante Redding', '1998-01-21', 'Eden, GA', 'd.redding@gmail.com', '7798415603', 'cavity filling, 2018-09-04'),
       ('006', 'Dante Redding', '1998-01-21', 'Eden, GA', 'd.redding@gmail.com', '7798415603', 'cavity filling, 2018-09-04'),
       ('007', 'James Brown', '1995-08-07', 'Atlanta, GA', 'jbrown79@gmail.com', '4802799898', 'standard cleaning, 2020-05-15')

```

Variable type for column “phone” in table “patient” changed from INT to BIGINT.

```

ALTER TABLE patient
DROP COLUMN patient_records
ALTER TABLE patient
ADD record_id INT
FOREIGN KEY (record_id) REFERENCES patient_visit.visit_id

INSERT INTO patient(patient_id, patient_name, birthdate, home_address, email, phone, patient_records)
VALUES ('001', 'India Johnson', '1985-08-09', 'Kennesaw, GA', 'india@outlook.com', '4798415602', 'two (2) cavity fillings, 2018-08-18'),
       ('002', 'India Johnson', '1985-08-09', 'Kennesaw, GA', 'india@outlook.com', '4798415602', 'two (2) cavity fillings, 2018-08-18'),
       ('003', 'India Johnson', '1985-08-09', 'Kennesaw, GA', 'india@outlook.com', '4798415602', 'two (2) cavity fillings, 2018-08-18'),
       ('004', 'Dante Redding', '1998-01-21', 'Eden, GA', 'd.redding@gmail.com', '7798415603', 'cavity filling, 2018-09-04'),
       ('005', 'Dante Redding', '1998-01-21', 'Eden, GA', 'd.redding@gmail.com', '7798415603', 'cavity filling, 2018-09-04'),
       ('006', 'Dante Redding', '1998-01-21', 'Eden, GA', 'd.redding@gmail.com', '7798415603', 'cavity filling, 2018-09-04'),
       ('007', 'James Brown', '1995-08-07', 'Atlanta, GA', 'jbrown79@gmail.com', '4802799898', 'standard cleaning, 2020-05-15')

```

Column “patient\_records” removed from table “patient” and replaced by foreign key “record\_id” that references “visit\_id” in table “patient\_visit.”

```

ALTER TABLE patient_visit
ALTER COLUMN service_provided VARCHAR(50) NOT NULL;
ALTER TABLE patient_visit
ALTER COLUMN cost FLOAT NOT NULL;

```

In table “patient\_visit”, column “service\_provided” can now accept more characters and column “cost” is now a float type.

```

1  INSERT INTO patient(patient_id, patient_name, birthdate, home_address, email, phone)
2  VALUES ('034', 'Indie Johnson', '1981-10-09', 'Kennesaw, GA', 'indie@outlook.com', 4785038642),
3   ('040', 'Dante Reddi', '1998-01-21', 'Eden, GA', 'd.reddi@gmail.com', 7788415643),
4   ('001', 'Janet Brown', '1995-04-07', 'Atlanta, GA', 'j.brown79@gmail.com', 4044789980)
5
6
7
8  INSERT INTO patient_visit(visit_id, patient_id, visit_date, cost, service_provided)
9  VALUES(157, 040, '2018-09-04', 142.24, 'cavity filling'),
10   (561, 001, '2019-10-01', 623.88, 'root canal'),
11   (552, 001, '2025-07-06', 8572.99, 'fitting for tooth grills')
12
13
14
15  SELECT * FROM patient;
16
17
18

```

patient_id	patient_name	birthdate	home_address	email	phone	record_id
1	Indie Johnson	1981-04-07	Marietta, GA	indie79@gmail.com	4044789980	NULL
2	Indie Johnson	2001-10-09	Kennesaw, GA	indie@outlook.com	4785038642	NULL
3	Dante Reddi	1998-01-21	Eden, GA	d.reddi@gmail.com	7788415643	NULL

Values given to tables “patient” and “patient\_visit”.

Entire table of “patient” is displayed.

```

File Edit View Query Git Project Tools Extensions Window Help ⌘ Search Solution1

Object Explorer
SQLQuery1.sq...claud (56)* SQLQuery3.sql...00\claud (83)*

1 ✓ INSERT INTO patient(patient_id, patient_name, birthdate, home_address, email, phone)
2 VALUES (934, 'Indie Johnson', '2001-08-09', 'Kennesaw, GA', 'indie@outlook.com', '4705938642'),
3 (935, 'Quinto Reid', '1998-03-21', 'Tucker, GA', 'quentin@gmail.com', '7708116421'),
4 (936, 'Court Brown', '1999-06-27', 'Atlanta, GA', 'jbrown@gmail.com', '4049879996');
5
6
7 ✓ INSERT INTO patient.visit(visit_id, patient_id, visit_date, cost, service_provided)
8 VALUES (157, 644, '2010-09-04', 142.24, 'cavity filling'),
9 (479, 34, '2010-10-23', 845.68, 'cavity fillings for two (2) molars'),
10 (552, 644, '2025-07-06', 8572.9, 'fitting for tooth grills'),
11 (561, 644, '2025-09-03', 623.88, 'root canal'),
12 (562, 644, '2025-07-06', 8572.9, 'fitting for tooth grills')
13
14
15 SELECT * FROM patient
16 SELECT * FROM patient.visit
17
18
19

```

visit_id	patient_id	visit_date	cost	service_provided	
1	157	44	2010-09-04	142.24	cavity filling
2	479	34	2010-10-23	845.68	cavity fillings for two (2) molars
3	552	644	2025-07-06	8572.9	fitting for tooth grills
4	561	44	2025-09-03	623.88	root canal

Query executed successfully. localhost (16.0 RTM) | INSANITY00\claud (56) | Dentistry1 | 00:00:00 | 7 rows.

“patient” and “patient\_visit” tables queried and shown.

```

File Edit View Query Git Project Tools Extensions ⌘ Search Solution1

Object Explorer
SQLQuery1.sq...claud (56)* SQLQuery3.sql...00\claud (83)*

1 ✓ UPDATE patient_visit
2 SET next_appt = '2025-07-17'
3 WHERE visit_id = 552;
4
5 ✓ UPDATE patient_visit
6 SET next_appt = '2025-09-16'
7 WHERE visit_id = 561;
8
9
10
11
12
13
14
15

SELECT * FROM patient_visit;


```

visit_id	patient_id	visit_date	next_appt	cost	service_provided
1	157	44	2010-09-04	NULL	142.24 cavity filling
2	479	34	2010-10-23	NULL	845.68 cavity fillings for two (2) molars
3	552	44	2025-07-06	2025-07-17	8572.9 fitting for tooth grills
4	561	44	2025-09-03	2025-09-16	623.88 root canal

Query ... localhost (16.0 RTM) | INSANITY00\claud (56) | Dentistry1 | 00:00:00 | 4 rows.

Additional values given to “patient\_visit” table and the table is displayed.

```

File Edit View Query Git Project Tools Extensions Window Help Search Solution
File Edit View Query Git Project Tools Extensions Window Help Search Solution
Object Explorer Database Snapshots Dentistry1 Database Diagrams Dentistry1
System Tables FileTables External Tables Columns Tables
Employees Employee
dbo.insured_patient
dbo.patient
dbo.patient_age
dbo.patient_visit
dbo.provider_patient
Columns
FKs
Constraints
Triggers
Indexes
Statistics
Patient_id (PK, int, not null)
Provider_name (varchar(1), no
Provider_phone_number (int, in
Policy_number (varchar(1), no
Card_number (char(16), not null
Card_expiration_date (char(5),
Security_number (char(3), n
Keys
Comments
Properties
Indexes
Statistics
LN 14 Ch 1 TABS CRLF
Messages Client Statistics
Completion time: 2024-11-09T04:32:40.8449707+01:00
localhost (16.0 RTM) INSANITY00cloud (56) Dentistry1 000000 0 rows
Query executed successfully.

```

SQLQuery1.sql (1 row(s) affected)

```

1   INSERT INTO selfPaid_patient([patient_id], card_number, card_expiration_date, security_number)
2   VALUES ('094', '7639 8021 3358', '09/29', 866),
3   ('057', '3478 7426 0356', '11/2832', 354),
4   ('082', '8534 0856 4697', '05/2835', 525),
5   ;
6
7
8   INSERT INTO insured_patient([patient_id], provider_name, provider_phone_number, policy_number)
9   VALUES ('094', 'Amerigroup Community Care', '6798578400', '#197ATUP229'),
10  ('021', 'Aetna Medicare', '8553351407', 'BL9861114HVY'),
11  ('017', 'Cigna', '8009971654', '643G986C3HMT76'),
12  ('057', 'Jackson Willis', '1999-06-02', 0845136092, 'Atlanta, GA'),
13  ('082', 'Jessica Wright', '1998-02-25', 8840432696, 'Savannah, GA'),
14  ('094', 'Andrea Lam', '1999-07-26', 0784223173, 'Macon, GA'),
15
16
17   INSERT INTO patient([patient_id], patient_name, birthdate, phone, home_address)
18   VALUES ('021', 'Andrea Mueller', '1980-01-15', '4783557856', 'Savannah, GA'),
19   ('017', 'Jackson Willis', '1999-06-02', 0845136092, 'Atlanta, GA'),
20   ('057', 'Jessica Wright', '1998-02-25', 8840432696, 'Savannah, GA'),
21   ('082', 'Andrea Lam', '1999-07-26', 0784223173, 'Macon, GA'),
22
23
24   SELECT patient_name FROM patient;
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LN 14 Ch 1 TABS CRLF
Messages Client Statistics
Completion time: 2024-11-09T04:32:40.8449707+01:00
localhost (16.0 RTM) INSANITY00cloud (56) Dentistry1 000000 0 rows
Query executed successfully.

```

More values added to “patient” table.

```

File Edit View Query Git Project Tools Extensions Window Help Search Solution
File Edit View Query Git Project Tools Extensions Window Help Search Solution
Object Explorer Database Snapshots Dentistry1 Database Diagrams Dentistry1
System Tables FileTables External Tables Columns Tables
Employees Employee
dbo.insured_patient
dbo.patient
dbo.patient_age
dbo.patient_visit
dbo.provider_patient
Columns
FKs
Constraints
Triggers
Indexes
Statistics
Patient_id (PK, int, not null)
Provider_name (varchar(1), no
Provider_phone_number (int, in
Policy_number (varchar(1), no
Card_number (char(16), not null
Card_expiration_date (char(5),
Security_number (char(3), n
Keys
Comments
Properties
Indexes
Statistics
LN 5 Ch 1 TABS CRLF
Messages Client Statistics
Completion time: 2024-11-09T04:32:40.8449707+01:00
localhost (16.0 RTM) INSANITY00cloud (56) Dentistry1 000000 0 rows
Query executed successfully.

```

SQLQuery1.sql (5 row(s) affected)

```

1   INSERT INTO selfPaid_patient([patient_id], card_number, card_expiration_date, security_number)
2   VALUES ('094', '7639 8021 3358', '09/29', 866),
3   ('057', '3478 7426 0356', '11/2832', 354),
4   ('082', '8534 0856 4697', '05/2835', 525),
5   ;
6
7
8   INSERT INTO insured_patient([patient_id], provider_name, provider_phone_number, policy_number)
9   VALUES ('094', 'Amerigroup Community Care', '6798578400', '#197ATUP229'),
10  ('021', 'Aetna Medicare', '8553351407', 'BL9861114HVY'),
11  ('017', 'Cigna', '8009971654', '643G986C3HMT76'),
12  ('057', 'Jackson Willis', '1999-06-02', 0845136092, 'Atlanta, GA'),
13  ('082', 'Jessica Wright', '1998-02-25', 8840432696, 'Savannah, GA'),
14  ('094', 'Andrea Lam', '1999-07-26', 0784223173, 'Macon, GA'),
15
16
17   SELECT * FROM insured_patient;
18
19
20   ALTER TABLE insured_patient
21   ALTER COLUMN provider_name VARCHAR(30) NOT NULL;
22
23
24   ALTER TABLE insured_patient
25   ALTER COLUMN policy_number VARCHAR(30) NOT NULL;
26
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LN 16 Ch 1 TABS CRLF
Messages Client Statistics
Completion time: 2024-11-09T04:32:40.8449707+01:00
localhost (16.0 RTM) INSANITY00cloud (56) Dentistry1 000000 0 rows
Query executed successfully.

```

Acceptable input amount for “provider\_name” and “policy\_number” in table “insured\_patient” are updated.

```

File Edit View Query Git Project Tools Window Help Search Solution
Dentistry1 SQLQuery1.sql -> \claud (56) * x SQLQuery2.sql -> \claud (83)
Object Explorer
SQLServer -> \claud (56) * x SQLServer -> \claud (83)
1  ✓ INSERT INTO selfPaid_patient(patient_id, card_number, card_expiration_date, security_number)
2   VALUES (83, '7639 8421 3300', '09/29', 846),
3   (857, '3478 7434 0356', '11/29', 354),
4   (882, '8534 0856 4697', '09/30', 925)
5   ;
6
7
8   ✓ INSERT INTO insured_patient(patient_id, provider_name, provider_phone_number, policy_number)
9   VALUES (844, 'Amerigroup Community Care', '6785874840', '0107ATUP229'),
10  (821, 'Aetna Medicare', '8553351407', 'BL98631164YV'),
11  (817, 'Cigna', '8009971654', '643GN06C3HM176')
12  ;
13
14  SELECT * FROM insured_patient;
15  SELECT * FROM selfPaid_patient;
16

```

Results

patient_id	provider_name	provider_phone_number	policy_number
1	Amerigroup Community Care	6785874840	0107ATUP229
2	Aetna Medicare	8553351407	BL98631164YV
3	Cigna	8009971654	643GN06C3HM176

Messages

No issues found

Client Statistics

Localhost (16.0 RTM) INSANITY00\claud (56) Dentistry1 00:00:00 12 rows

Query executed successfully.

Values given to “selPaid\_patient” and “insured\_patients” and both tables are queried and displayed.

```

File Edit View Query Git Project Tools Extensions Window Help Search Solution
Dentistry1 SQLQuery1.sql -> \claud (56) * x SQLQuery2.sql -> \claud (83)
Object Explorer
SQLServer -> \claud (56) * x SQLServer -> \claud (83)
1  ✓ SELECT * FROM patient_age;
2
3  ✓ SELECT * FROM patient_visit;
4
5  ✓ SELECT * FROM employee;
6
7  ✓ INSERT INTO patient_age(patient_id, age)
8   VALUES (801, 38),
9   (817, 25),
10  (821, 48),
11  (834, 24),
12  (849, 27),
13  (857, 27),
14  (862, 26);
15
16
17
18
19
20
21

```

Results

No issues found

Messages

No issues found

Client Statistics

1 row affected

Completion time: 2016-11-02T04:58:10.3470048+00:00

Localhost (16.0 RTM) INSANITY00\claud (56) Dentistry1 00:00:00 1 row affected

Mixed

Values added to “patient\_age” table.

SQlQuery1.sql - claud (56)\*

```

1  SELECT p.* , pa.age, pi.provider_name, pp.card_number, pr.service_provided
2  FROM patient p
3  LEFT JOIN patient_age pa ON pa.patient_id = p.patient_id
4  LEFT JOIN patient_provider pi ON pi.patient_id = p.patient_id
5  LEFT JOIN selfPaid_patient pp ON pp.patient_id = p.patient_id
6  LEFT JOIN patient_visit pv ON pv.patient_id = p.patient_id;
7
8  SELECT * FROM employee;
9
10 
```

Results

patient_id	patient_name	birthdate	home_address	email	phone	age	provider_name	card_number	service_provided
17	Jackson Willis	2000-06-02	Atlanta, GA	NULL	4045446892	25	Cigna	NULL	NULL
21	Austin Johnson	2001-01-01	Atlanta, GA	NULL	4045446892	25	Delta Dental Medicare	NULL	NULL
34	Indie Johnson	2001-10-09	Kennesaw, GA	indie1@outlook.com	470303842	24	M&L	7639 8421 1350	candy fittings for two (2) molars
34	Indie Johnson	2001-10-09	Kennesaw, GA	indie1@outlook.com	470303842	24	M&L	7639 8421 1350	candy fittings for two (2) molars
44	Dante Rudd	1998-01-21	Eden, GA	dredd45@gmail.com	7708119643	24	M&L	859 9421 1330	candy fittings for two (2) molars
44	Dante Rudd	1998-01-21	Eden, GA	dredd45@gmail.com	7708119643	27	Amerigroup Community Care	NULL	NULL
57	Jessica Wright	1998-02-25	Savannah, GA	NULL	8044832696	27	M&L	3478 7434 0356	NULL
57	Jessica Wright	1998-02-25	Savannah, GA	NULL	8044832696	27	M&L	3478 7434 0356	NULL
82	Andrew Lam	1999-07-26	Macomb, MI	NULL	470223173	26	M&L	8534 0096 4997	NULL
82	Andrew Lam	1999-07-26	Macomb, MI	NULL	470223173	26	M&L	8534 0096 4997	NULL

Employee

employee_id	first_name	last_name	email	phone	hire_date	job_title	manager_id	commission_pct	salary
101	1978-06-15	Jonesboro, GA	AMH@dentistry.com	4046307070	Ruby Miller	NULL	NULL	0.15	7434 0356
102	1987-10-23	Atlanta, GA	Jcaro@dentistry.com	770687418	Dentist	James Davis	NULL	0.15	7434 0356
103	1989-05-29	Marietta, GA	Zcaro@dentistry.com	470215321	Hygienist	June Carlos	NULL	0.15	7434 0356
109	1979-07-12	Atlanta, GA	ABear@dentistry.com	870959573	Hygienist	Alfred Akbar	NULL	0.15	7434 0356

Query executed successfully.

“employee” table and the combined “patient” and patient-related tables are queried and displayed.

SQlQuery1.sql - claud (56)\*

```

1  SELECT patient_id, patient_name, email
2  FROM patient;
3
4  UPDATE patient
5  SET email = 'andy998@outlook.com'
6  WHERE patient_id = 862;
7
8  UPDATE patient
9  SET email = 'jack4002@gmail.com'
10 WHERE patient_id = 817;
11
12
13  SELECT patient_name, email, birthdate
14  FROM patient;
15 
```

Results

patient_id	patient_name	email
101	Ruby Miller	AMH@dentistry.com
102	James Davis	Jcaro@dentistry.com
103	June Carlos	Zcaro@dentistry.com
109	Alfred Akbar	ABear@dentistry.com

Completion time: 2020-11-09T27:20:20.0987232-08:00

Query executed successfully.

Two (2) email values added to “patient table”.

The screenshot shows the SQL Server Management Studio interface with two query windows open. The left window, titled 'SQLQuery1.sql - [cloud (56)]', contains the following SQL code:

```
1 SELECT patient_name, email, birthdate
2 FROM patient;
3
4 SELECT employee_name, email, birthdate
5 FROM employee;
```

The right window, titled 'SQLQuery3.sql - [cloud (56)]', also contains the same two queries. Below the queries, the results are displayed in two separate tables.

**Result of the first query (patients):**

patient_name	email	birthdate
Janet Brown	JanetBrown@gmail.com	1999-04-07
Jackson Willis	JacksonW02@gmail.com	2000-08-02
Andrea Lewis	AndreaL03@gmail.com	1998-01-14
India Johnson	IndiaJ04@outlook.com	2001-10-09
Darlene Redd	D.red05@gmail.com	1998-01-21
Jessica Wright	MNULL	1999-03-25
Andrew Lam	and07@outlook.com	1999-07-26

**Result of the second query (employees):**

employee_name	email	birthdate
John Doe	JohnD01@dentistry.com	1980-01-15
James Davis	JDavis@dentistry.com	1987-10-23
Juan Carlos	JCar03@dentistry.com	1989-05-29
Ahmed Alara	Alara05@dentistry.com	1979-07-12

At the bottom of the interface, a yellow status bar displays the message 'Query executed successfully.'

Name, email, and birthdate values displayed for all patients and employees.