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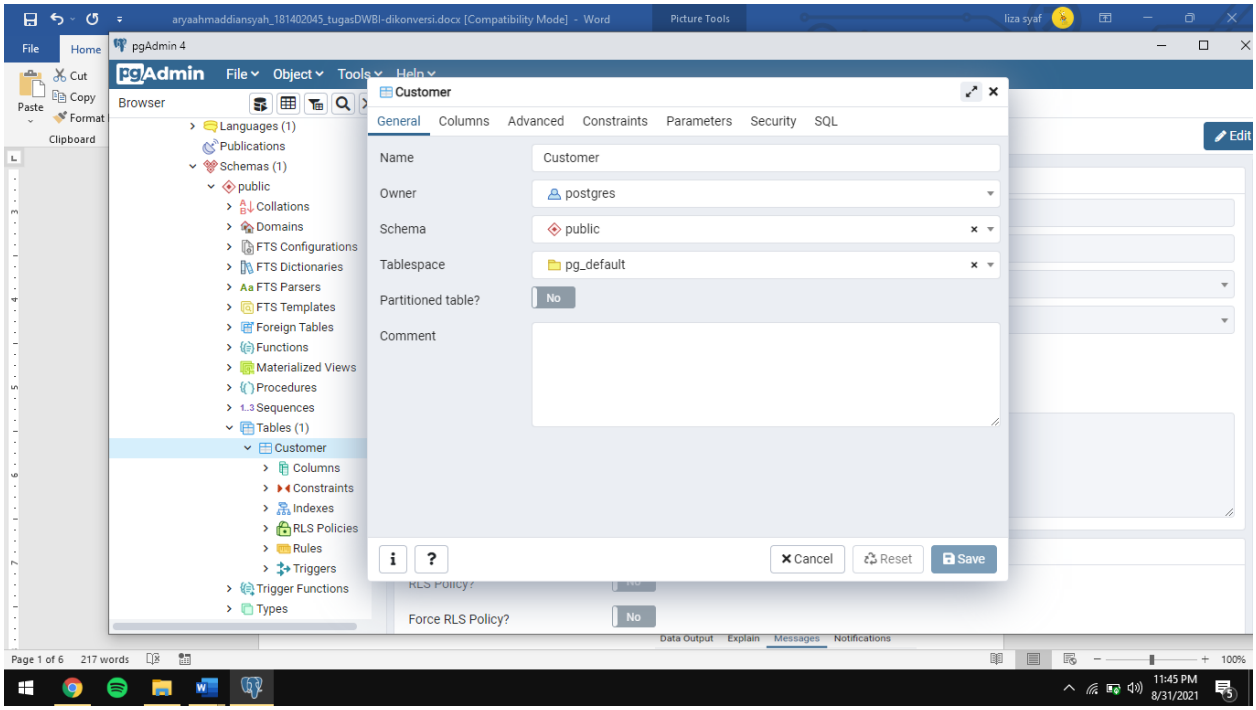
NIM : 181402006
Data Warehouse dan Bisnis Intelligence - Kelas C

1. Write a CREATE TABLE statement for the *Customer* table. Choose data types appropriate for the DBMS used in your course. All columns are required (not null).
2. Write a CREATE TABLE statement for the *Facility* table. Choose data types appropriate for the DBMS used in your course. All columns are required (not null).
3. Write a CREATE TABLE statement for the *Location* table. Choose data types appropriate for the DBMS used in your course. *LocName* column is required (not null).
4. Identify the foreign key(s) and 1-M relationship(s) among the *Customer*, *Facility*, and *Location* tables. For each relationship, identify the parent table and the child table.
5. Extend your CREATE TABLE statement from problem (3) with referential integrity constraints.
6. From examination of the sample data and your common understanding of scheduling and operation of events, are null values allowed for the foreign key in the *Location* table? Why or why not? Extend the CREATE TABLE statement in problem (5) to enforce the null value restrictions if any.
7. Extend your CREATE TABLE statement for the *Facility* table (problem 2) with a unique constraint for *FacName*. Use an external named constraint clause for the unique constraint.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Languages (1)
Publications
Schemas (1)
public
Collations
Domains
FTS Configurations
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
Procedures
Sequences
Tables (1)
Customer
Columns
Constraints
Indexes
RLS Policies
Rules
Triggers
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Types
Data Output
Explain
Messages
Notifications
Page 1 of 6
217 words
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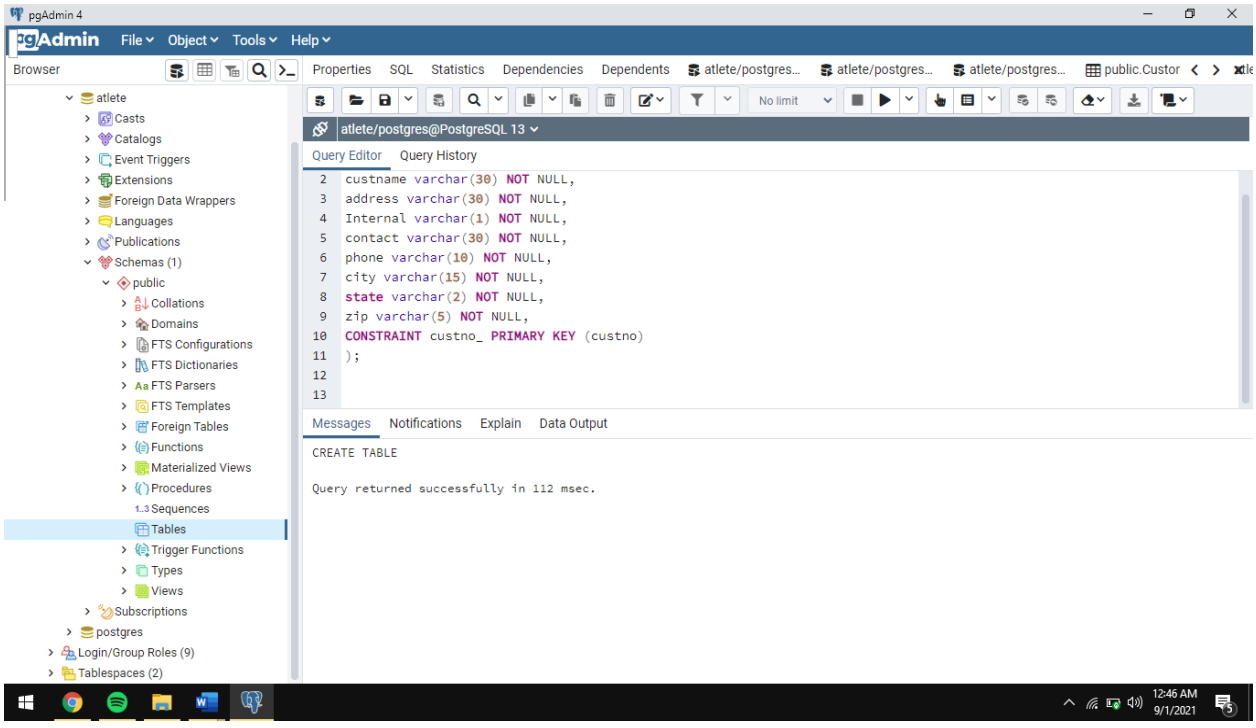
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atlete/postgres@PostgreSQL 13
Query Editor
Query History
2 custname varchar(30) NOT NULL,
3 address varchar(30) NOT NULL,
4 Internal varchar(1) NOT NULL,
5 contact varchar(30) NOT NULL,
6 phone varchar(10) NOT NULL,
7 city varchar(15) NOT NULL,
8 state varchar(2) NOT NULL,
9 zip varchar(5) NOT NULL,
10 CONSTRAINT custno_ PRIMARY KEY (custno)
11);
12
13
Messages
Notifications
Explain
Data Output
CREATE TABLE
Query returned successfully in 112 msec.
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Catalogs
Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas (1)
public
Collations
Domains
FTS Configurations
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
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Login/Group Roles (9)
Tablespaces (2)
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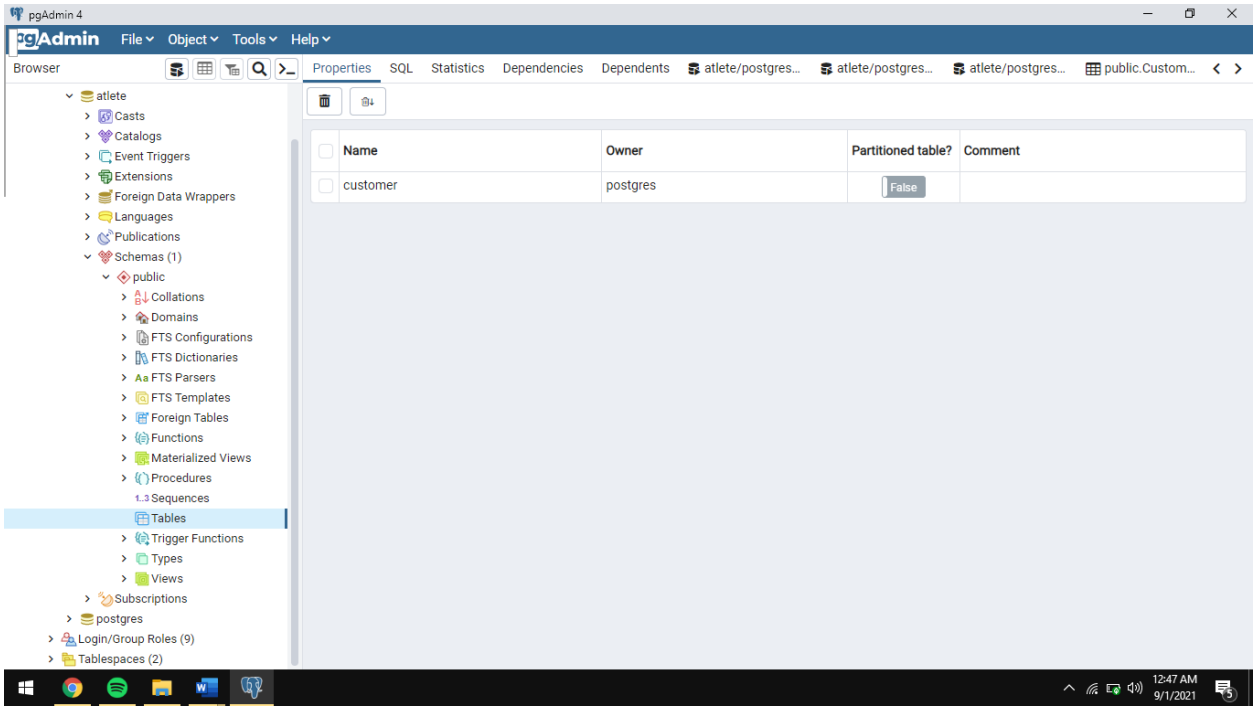
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Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas (1)
public
Collations
Domains
FTS Configurations
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
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Comment
customer
postgres
False
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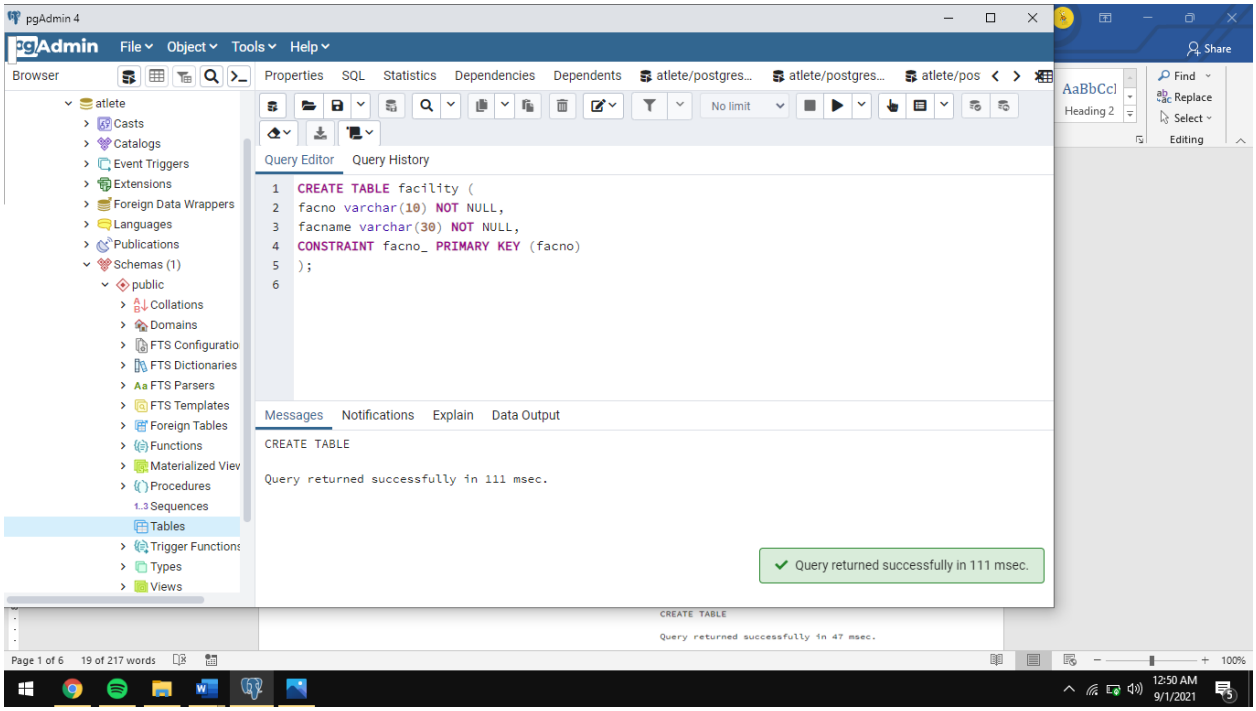
pgAdmin 4
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Dependents
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Query Editor
Query History
1 CREATE TABLE facility (
2 facno varchar(10) NOT NULL,
3 facname varchar(30) NOT NULL,
4 CONSTRAINT facno_ PRIMARY KEY (facno)
5);
6
Messages
Notifications
Explain
Data Output
CREATE TABLE
Query returned successfully in 111 msec.
Query returned successfully in 111 msec.
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CREATE TABLE
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Page 1 of 6
19 of 217 words
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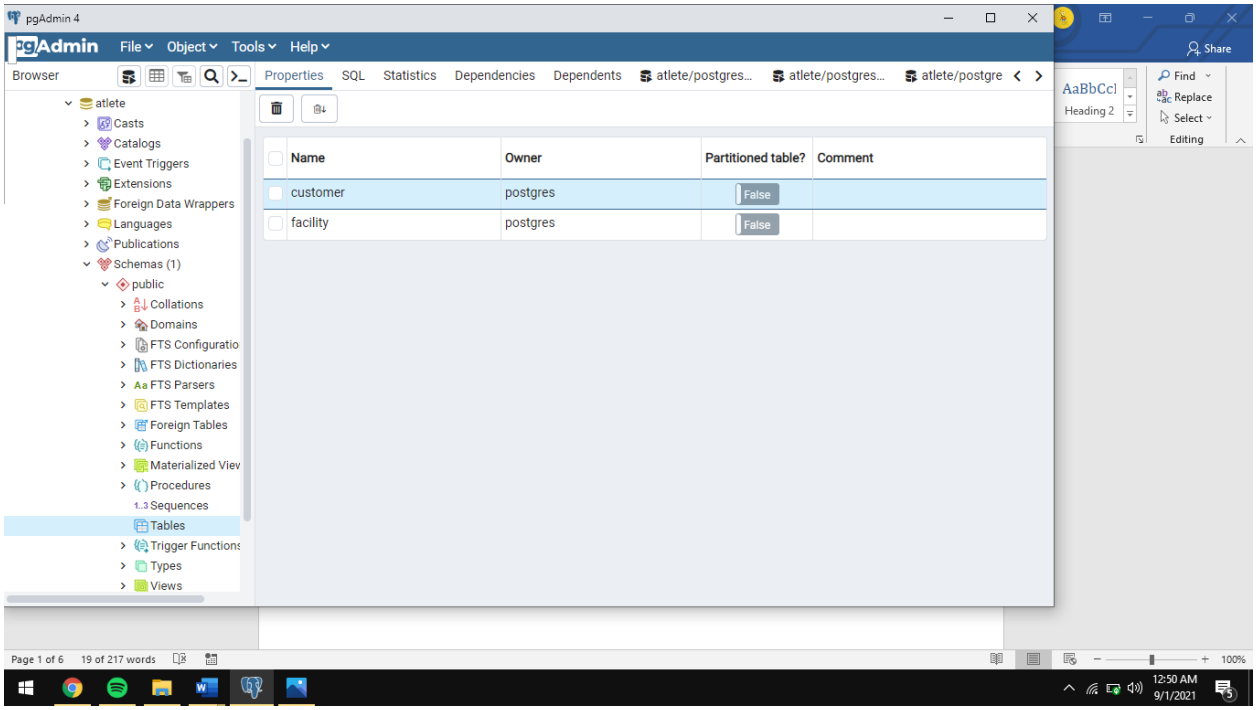
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Catalogs
Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas (1)
public
Collations
Domains
FTS Configuratio
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized View
Procedures
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Trigger Functions
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postgres
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Page 1 of 6
19 of 217 words
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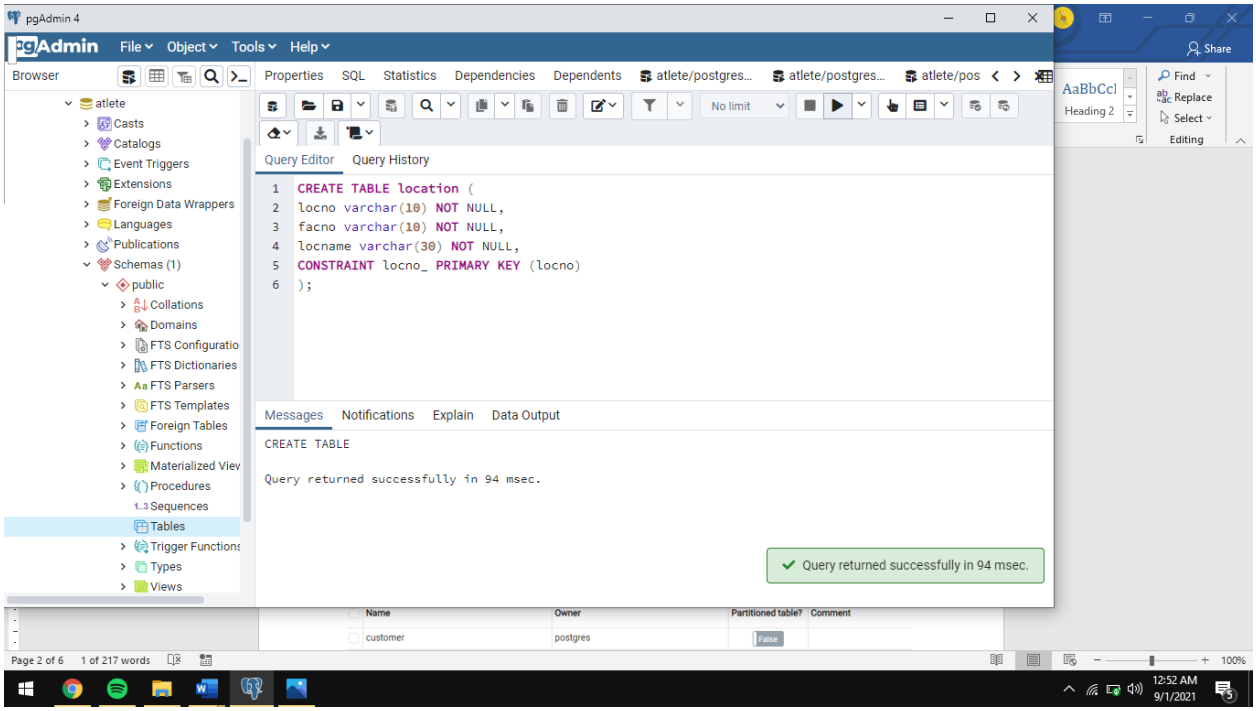
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No limit
Query Editor
Query History
1 CREATE TABLE location (
2 locno varchar(10) NOT NULL,
3 facno varchar(10) NOT NULL,
4 locname varchar(30) NOT NULL,
5 CONSTRAINT locno_ PRIMARY KEY (locno)
6);
Messages
Notifications
Explain
Data Output
CREATE TABLE
Query returned successfully in 94 msec.
Query returned successfully in 94 msec.
Page 2 of 6
1 of 217 words
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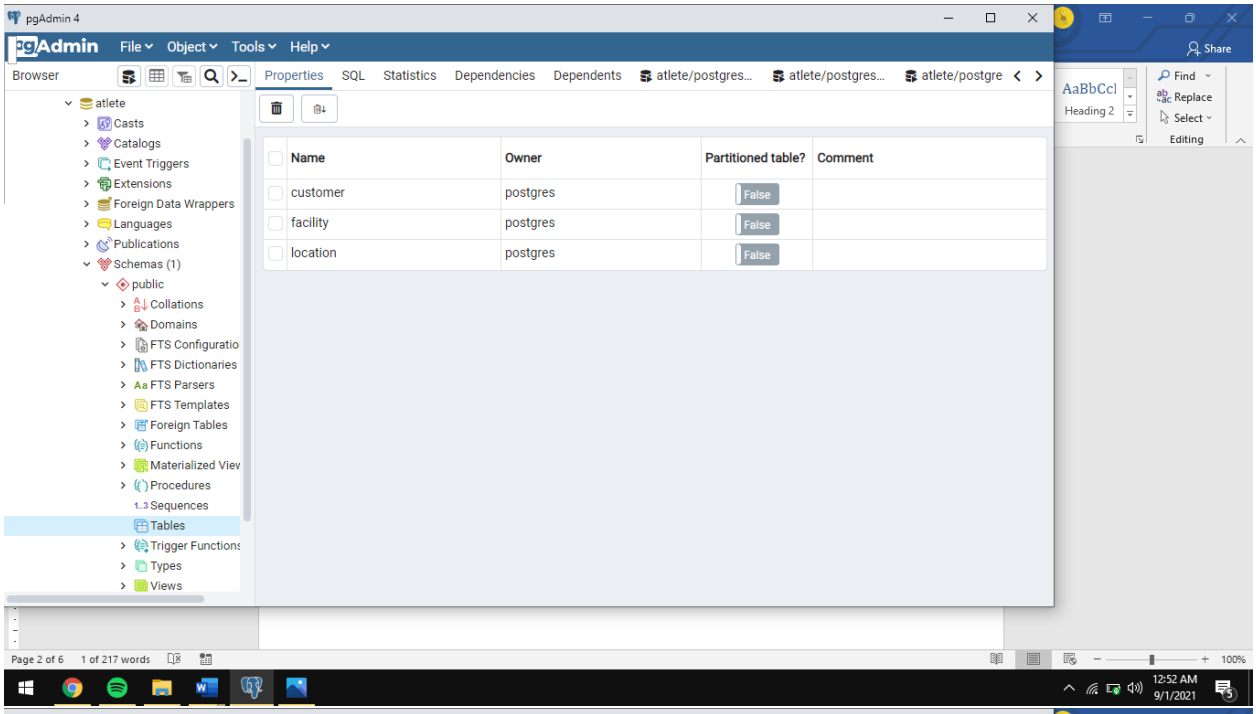
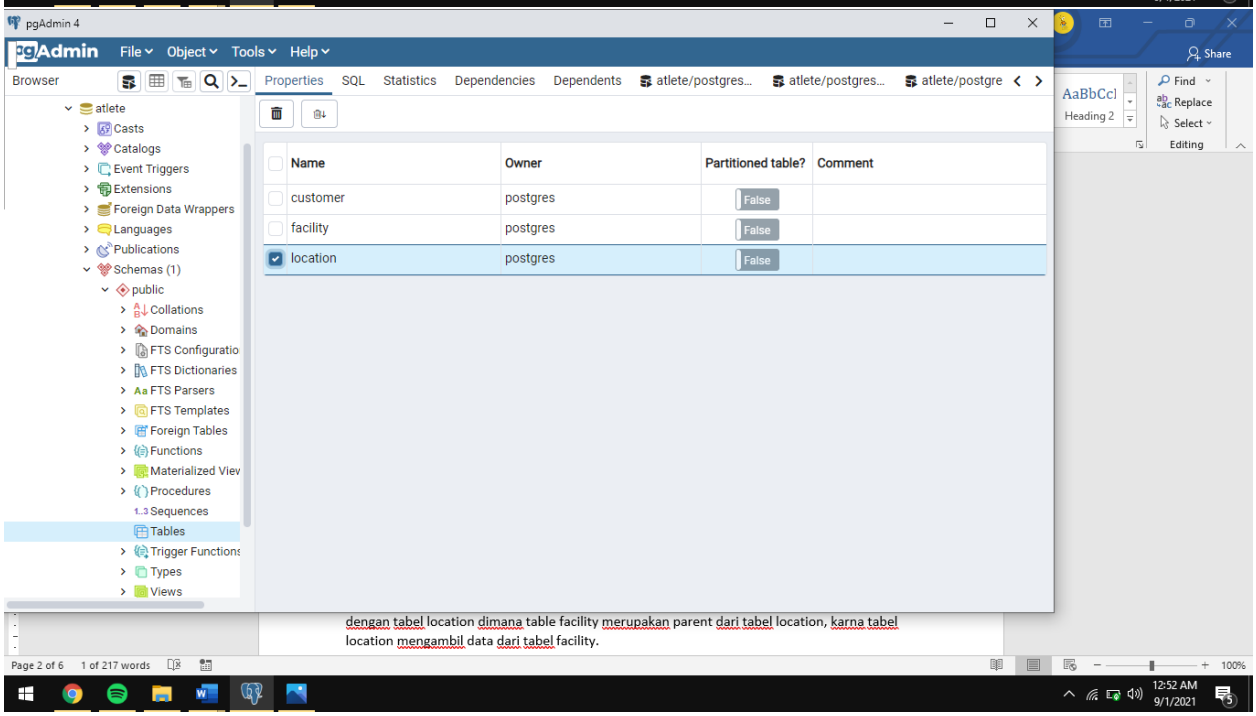
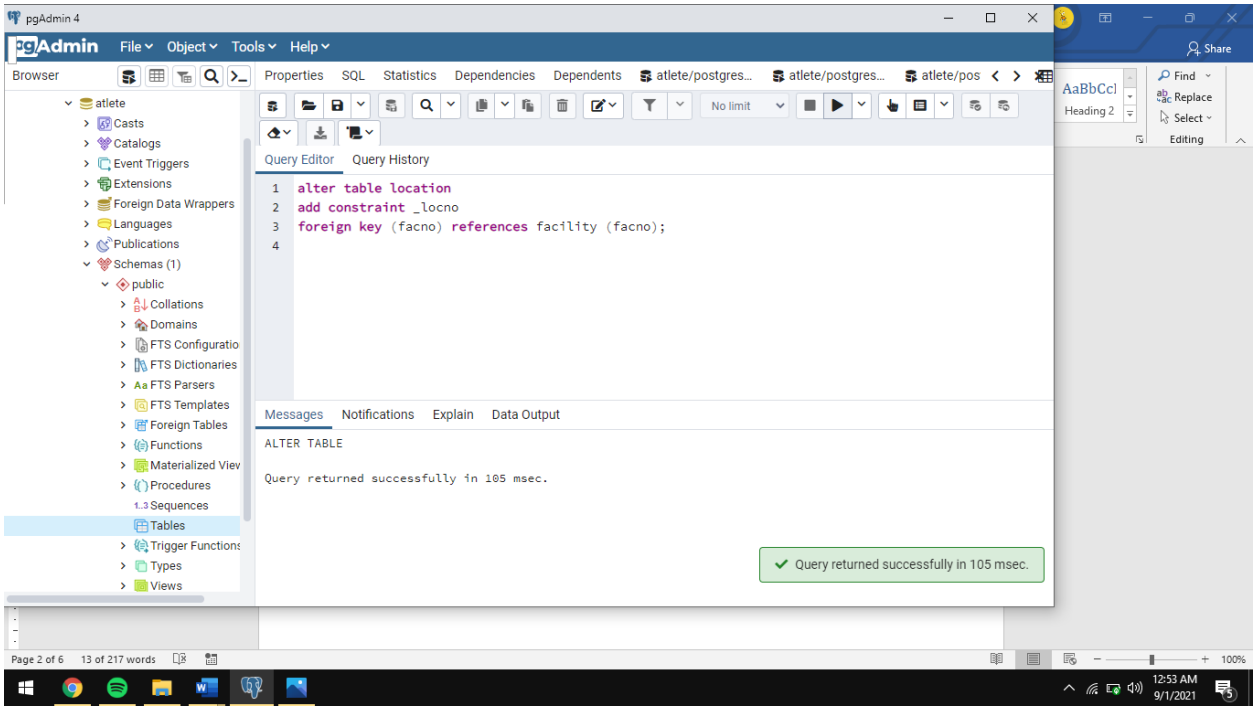




dengan tabel location dimana table facility merupakan parent dari tabel location, karna tabel location mengambil data dari tabel facility.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Catalogs
Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas (1)
public
Collations
Domains
FTS Configuratio
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Viev
Procedures
Sequences
Tables
Trigger Functions
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Views
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Query Editor Query History
1 alter table location
2 add constraint _locno
3 foreign key (facno) references facility (facno);
4
Messages Notifications Explain Data Output
ALTER TABLE
Query returned successfully in 105 msec.
Query returned successfully in 105 msec.
Page 2 of 6 13 of 217 words
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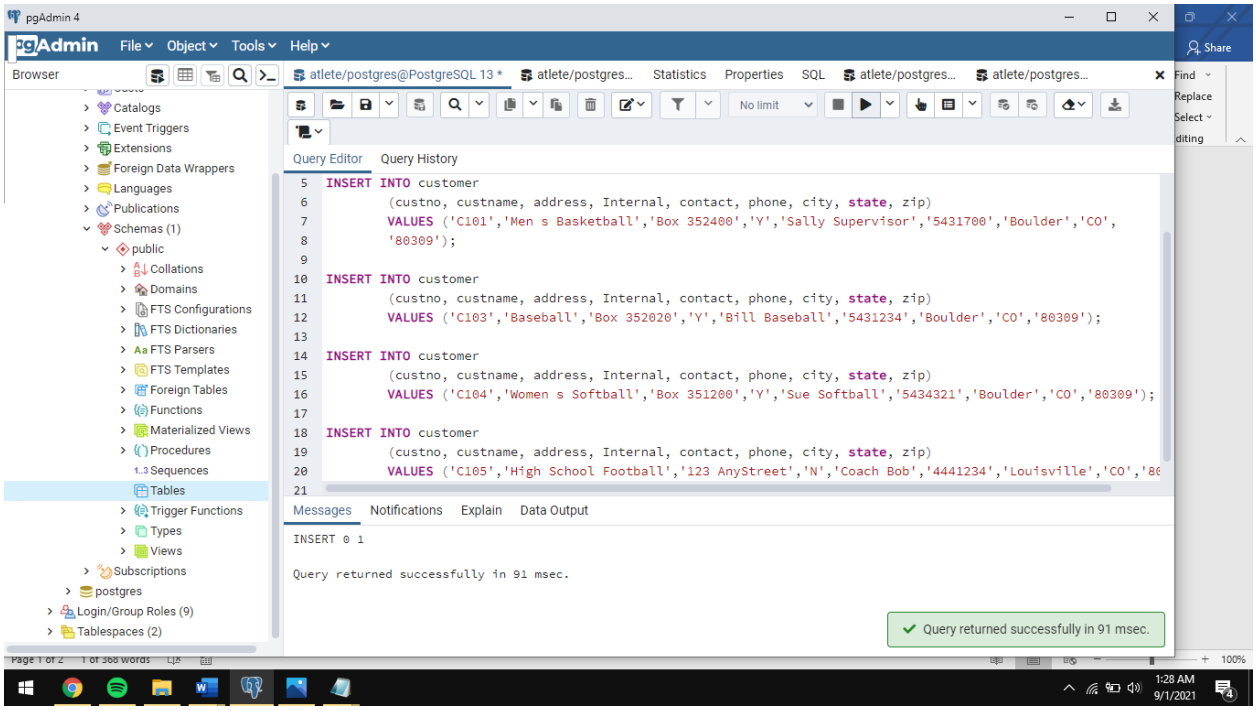
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Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas (1)
public
Collations
Domains
FTS Configurations
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
Procedures
Sequences
Tables
Trigger Functions
Types
Views
Subscriptions
postgres
Login/Group Roles (9)
Tablespaces (2)
No limit
Query Editor Query History
5 INSERT INTO customer
6 (custno, custname, address, Internal, contact, phone, city, state, zip)
7 VALUES ('C101','Men s Basketball','Box 352400','Y','Sally Supervisor','5431700','Boulder','CO',
8 '80309');
9
10 INSERT INTO customer
11 (custno, custname, address, Internal, contact, phone, city, state, zip)
12 VALUES ('C103','Baseball','Box 352020','Y','Bill Baseball','5431234','Boulder','CO','80309');
13
14 INSERT INTO customer
15 (custno, custname, address, Internal, contact, phone, city, state, zip)
16 VALUES ('C104','Women s Softball','Box 351200','Y','Sue Softball','5434321','Boulder','CO','80309');
17
18 INSERT INTO customer
19 (custno, custname, address, Internal, contact, phone, city, state, zip)
20 VALUES ('C105','High School Football','123 AnyStreet','N','Coach Bob','4441234','Louisville','CO','86
21
Messages Notifications Explain Data Output
INSERT 0 1
Query returned successfully in 91 msec.
Query returned successfully in 91 msec.
100%
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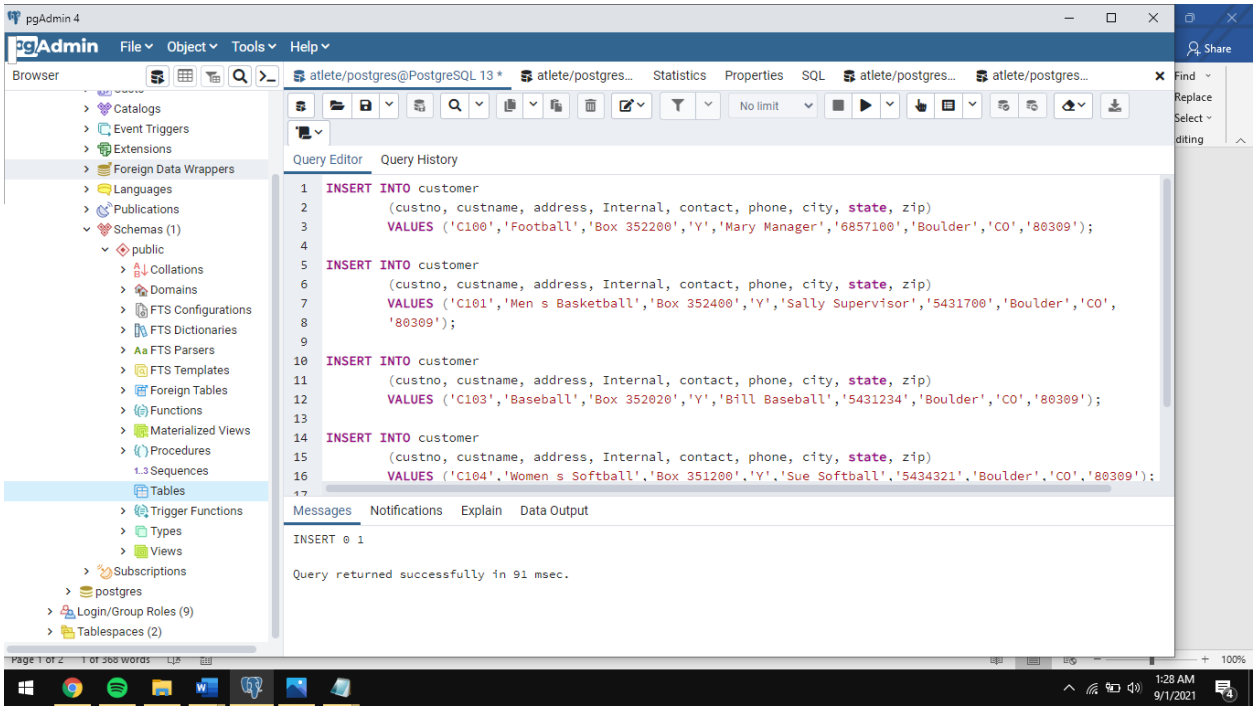
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File Object Tools Help
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Statistics Properties SQL
Query Editor Query History
INSERT INTO customer
(custno, custname, address, Internal, contact, phone, city, state, zip)
VALUES ('C100','Football','Box 352200','Y','Mary Manager','6857100','Boulder','CO','80309');
INSERT INTO customer
(custno, custname, address, Internal, contact, phone, city, state, zip)
VALUES ('C101','Men s Basketball','Box 352400','Y','Sally Supervisor','5431700','Boulder','CO',
'80309');
INSERT INTO customer
(custno, custname, address, Internal, contact, phone, city, state, zip)
VALUES ('C103','Baseball','Box 352020','Y','Bill Baseball','5431234','Boulder','CO','80309');
INSERT INTO customer
(custno, custname, address, Internal, contact, phone, city, state, zip)
VALUES ('C104','Women s Softball','Box 351200','Y','Sue Softball','5434321','Boulder','CO','80309');
Messages Notifications Explain Data Output
INSERT 0 1
Query returned successfully in 91 msec.
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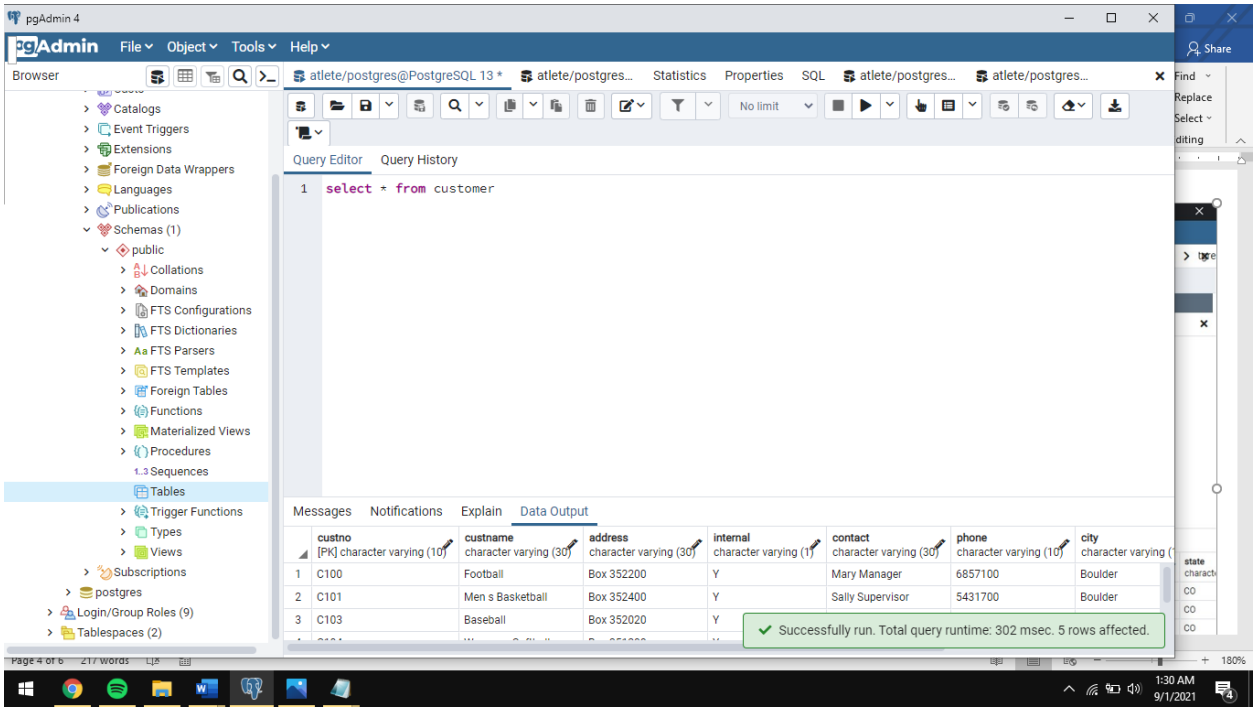
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File Object Tools Help
Browser
atlete/postgres@PostgreSQL 13 *
Statistics Properties SQL
Query Editor Query History
select * from customer
Messages Notifications Explain Data Output
custno [PK] character varying (10)
custname character varying (30)
address character varying (30)
internal character varying (1)
contact character varying (30)
phone character varying (10)
city character varying
1 C100 Football Box 352200 Y Mary Manager 6857100 Boulder
2 C101 Men s Basketball Box 352400 Y Sally Supervisor 5431700 Boulder
3 C103 Baseball Box 352020 Y
Successfully run. Total query runtime: 302 msec. 5 rows affected.
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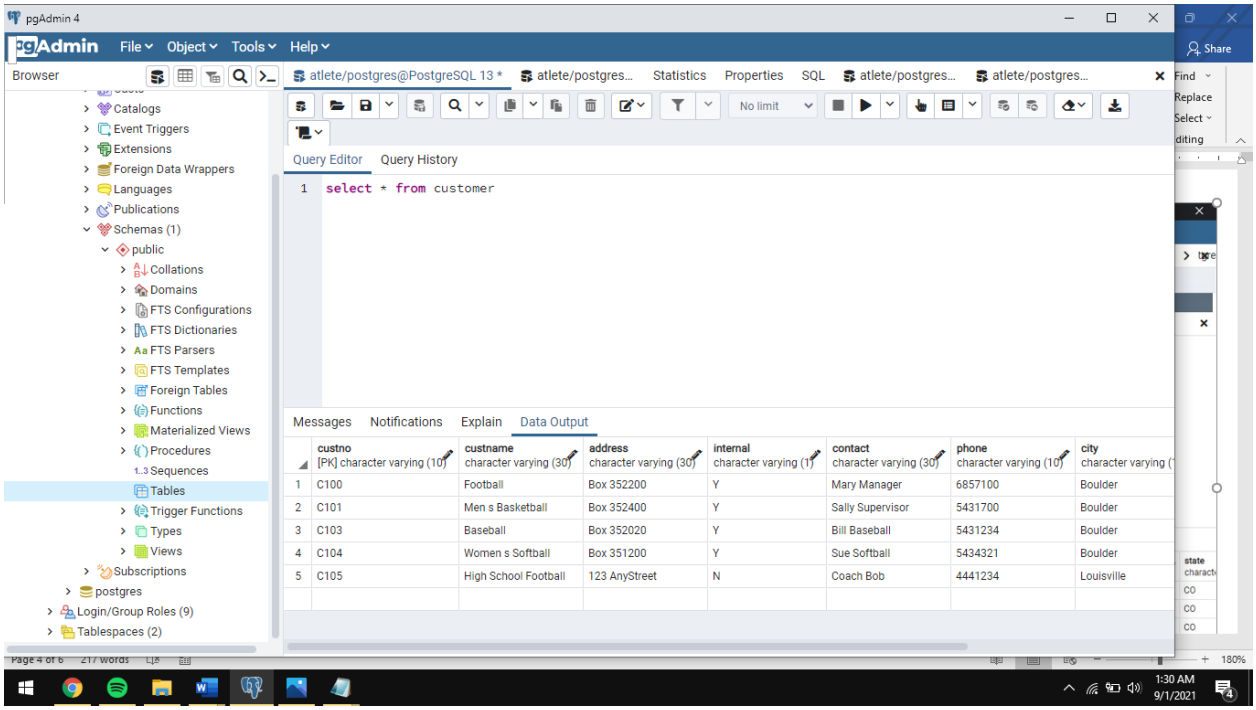
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Browser
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Statistics Properties SQL
Query Editor Query History
select * from customer
Messages Notifications Explain Data Output
custno [PK] character varying (10)
custname character varying (30)
address character varying (30)
internal character varying (1)
contact character varying (30)
phone character varying (10)
city character varying
C100 Football Box 352200 Y Mary Manager 6857100 Boulder
C101 Men s Basketball Box 352400 Y Sally Supervisor 5431700 Boulder
C103 Baseball Box 352020 Y Bill Baseball 5431234 Boulder
C104 Women s Softball Box 351200 Y Sue Softball 5434321 Boulder
C105 High School Football 123 AnyStreet N Coach Bob 4441234 Louisville
Catalogs
Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas (1)
public
Collations
Domains
FTS Configurations
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
Procedures
Sequences
Tables
Trigger Functions
Types
Views
Subscriptions
postgres
Login/Group Roles (9)
Tablespaces (2)
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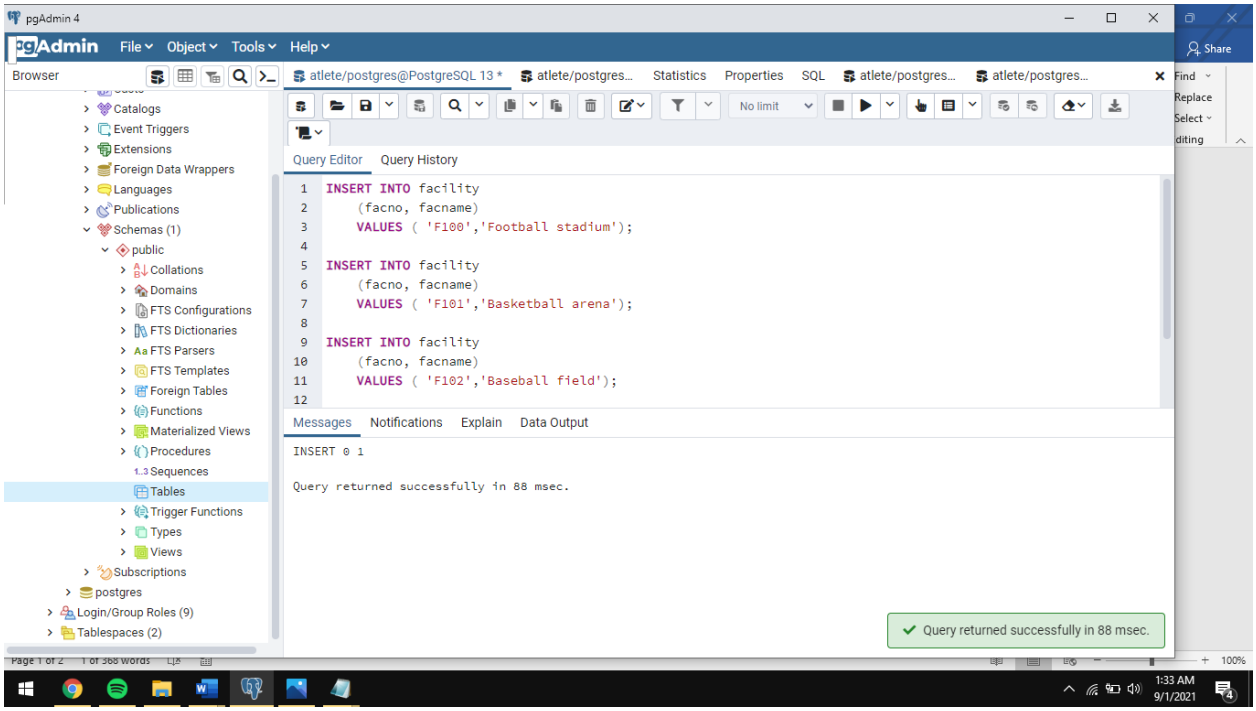
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File Object Tools Help
Browser
atlete/postgres@PostgreSQL 13 *
Statistics Properties SQL
Query Editor Query History
INSERT INTO facility
(facno, facname)
VALUES ('F100','Football stadium');
INSERT INTO facility
(facno, facname)
VALUES ('F101','Basketball arena');
INSERT INTO facility
(facno, facname)
VALUES ('F102','Baseball field');
Messages Notifications Explain Data Output
INSERT 0 1
Query returned successfully in 88 msec.
Query returned successfully in 88 msec.
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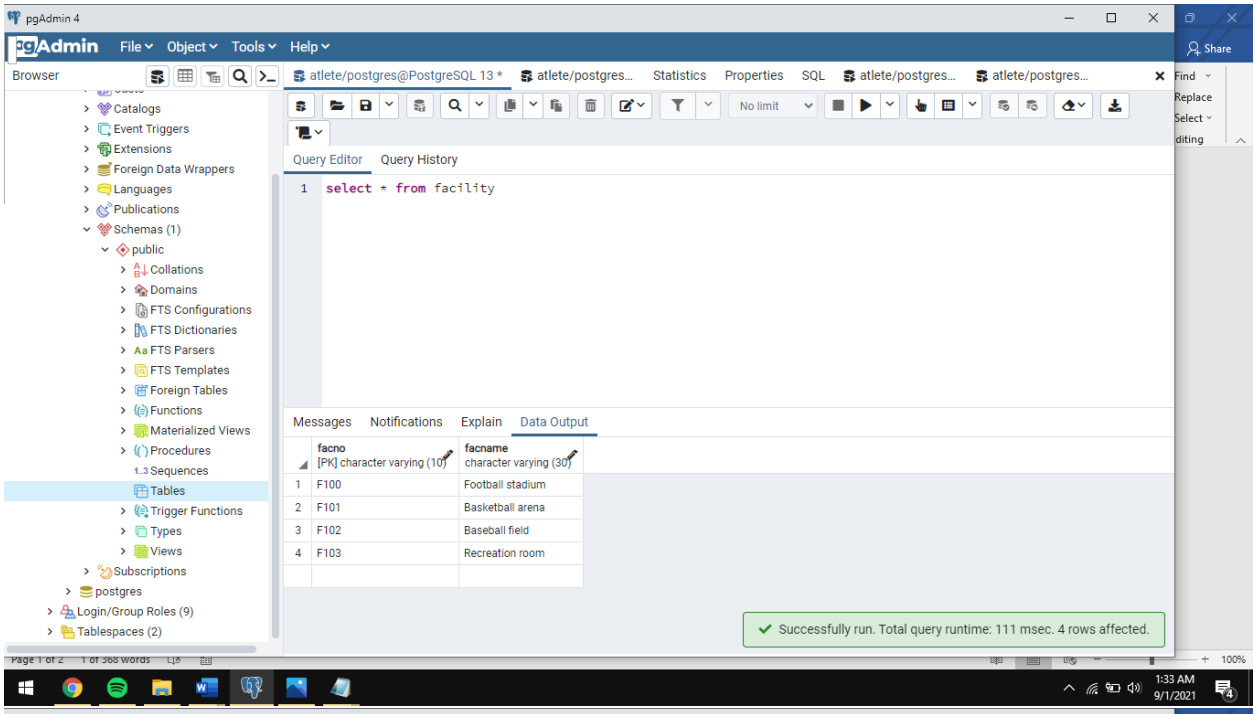
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File Object Tools Help
Browser
atlete/postgres@PostgreSQL 13 *
Statistics Properties SQL
Query Editor Query History
1 select * from facility
Messages Notifications Explain Data Output
facno [PK] character varying (10)
facname character varying (30)
1 F100 Football stadium
2 F101 Basketball arena
3 F102 Baseball field
4 F103 Recreation room
Successfully run. Total query runtime: 111 msec. 4 rows affected.
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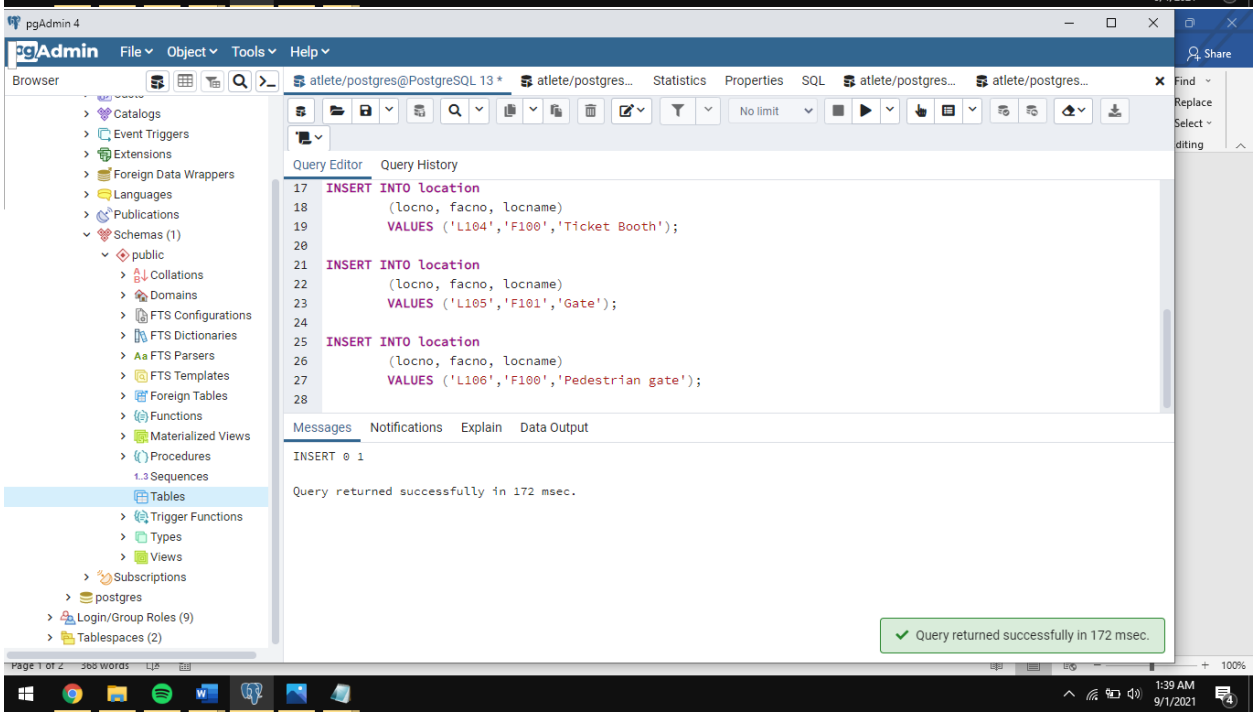
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File Object Tools Help
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atlete/postgres@PostgreSQL 13 *
Statistics Properties SQL
Query Editor Query History
17 INSERT INTO location
18 (locno, facno, locname)
19 VALUES ('L104','F100','Ticket Booth');
21 INSERT INTO location
22 (locno, facno, locname)
23 VALUES ('L105','F101','Gate');
25 INSERT INTO location
26 (locno, facno, locname)
27 VALUES ('L106','F100','Pedestrian gate');
Messages Notifications Explain Data Output
INSERT 0 1
Query returned successfully in 172 msec.
Query returned successfully in 172 msec.
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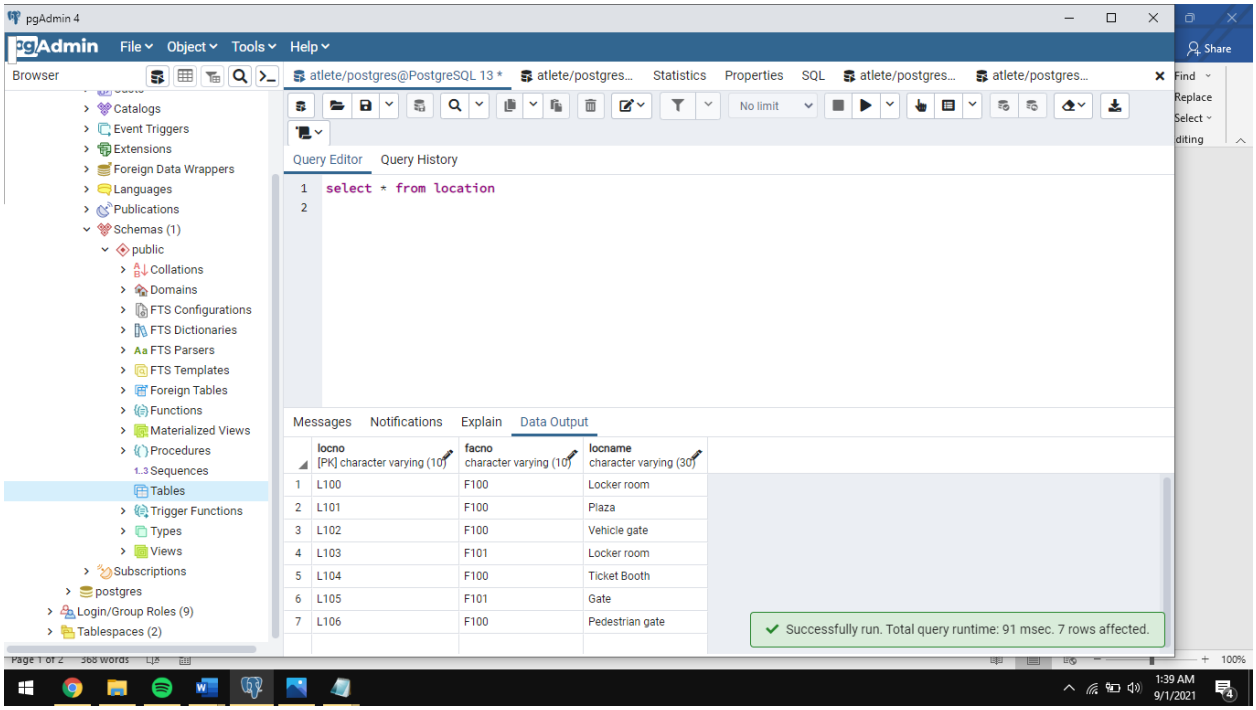
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File
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Tools
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Statistics
Properties
SQL
Catalogs
Event Triggers
Extensions
Foreign Data Wrappers
Languages
Publications
Schemas (1)
public
Collations
Domains
FTS Configurations
FTS Dictionaries
FTS Parsers
FTS Templates
Foreign Tables
Functions
Materialized Views
Procedures
Sequences
Tables
Trigger Functions
Types
Views
Subscriptions
postgres
Login/Group Roles (9)
Tablespaces (2)
No limit
Query Editor
Query History
1 select * from location
2
Messages
Notifications
Explain
Data Output
locno [PK] character varying (10)
facno character varying (10)
locname character varying (30)
1 L100 F100 Locker room
2 L101 F100 Plaza
3 L102 F100 Vehicle gate
4 L103 F101 Locker room
5 L104 F100 Ticket Booth
6 L105 F101 Gate
7 L106 F100 Pedestrian gate
Successfully run. Total query runtime: 91 msec. 7 rows affected.
Share
Find
Replace
Select
1:39 AM
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