IT214 : Database Management System
Group 6

Social Media Management System

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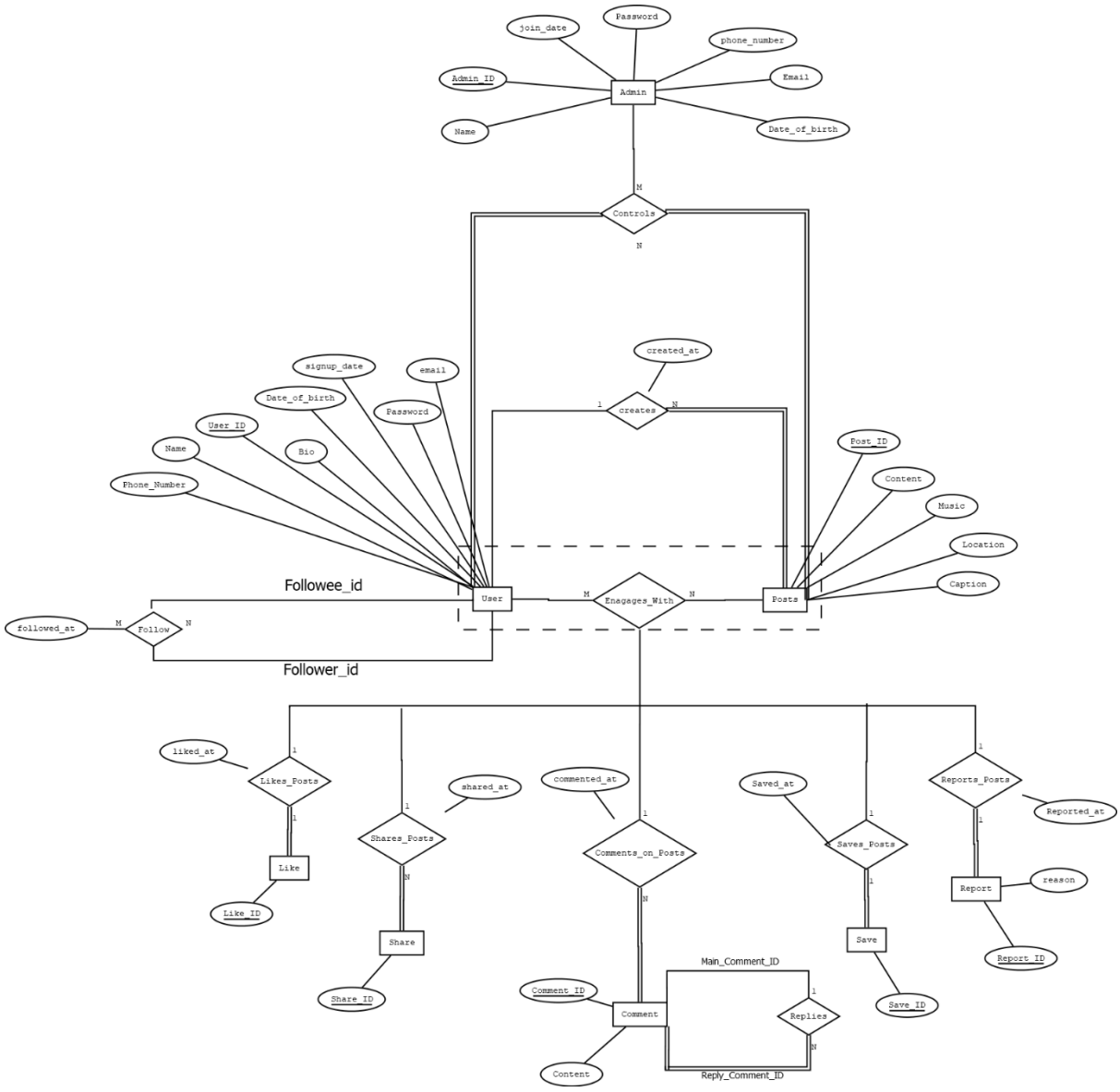
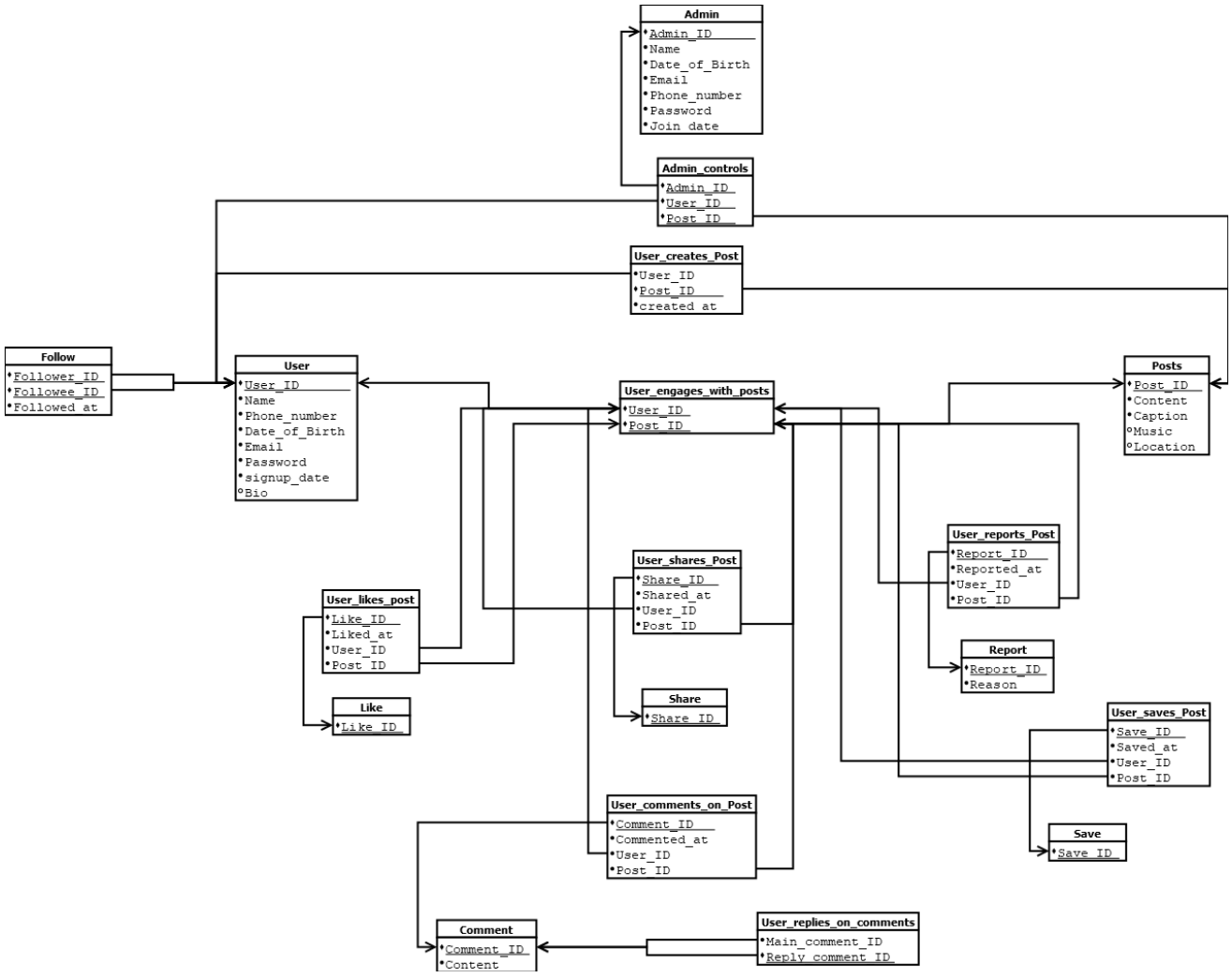
→ We have developed a database management system named “Social Media Management System”.

→ We have improvised our database and also updated our Entity-Relationship Diagram.

→ Updated ER – diagram :



→ Relational Schema :



→ Functional Dependencies :

1. User:-

User_ID → Name, Phone_number, Date_of_Birth, Email, Password, signup_date, Bio

2. Admin:-

Admin_ID → Name, Date_of_Birth, Email, Phone_number, Password, Join_date

3. Posts:-

Post_ID → Content, Caption, Music, Location

4. Follow:-

Follower_ID, Followee_ID → Followed_at

5. Admin_controls:-

Admin_ID, User_ID, Post_ID → (No non-key attributes)

6. User_creates_Post:-

User_ID, Post_ID → created_at

7. User_engages_with_post:-

Composite key, no non-key attributes

8. Like:-

Like_ID → Like_ID (trivial FD)

9. User_likes_post

Like_ID → Liked_at, User_ID, Post_ID

10. Share:-

Share_ID → Share_ID (trivial FD)

11. User_shares_post:-

Share_ID → Shared_at, User_ID, Post_ID

12. Comment:-

Comment_ID → Content

13. User_comments_on_Post:-

- Comment_ID → Commented_at, User_ID, Post_ID

14. User_replies_on_comments:-

Composite key, no non-key attributes

15. Report:-

Report_ID → Reason

16. User_reports_post:-

Report_ID → Reported_at, User_ID, Post_ID

17. Save:-

Save_ID → Save_ID (trivial FD)

18. User_saves_post:-

Save_ID → Saved_at, User_ID, Post_ID

→ Minimal FD set and BCNF analysis :

→ Here's the reduced minimal FD set along with proof of relations being in BCNF :

1.User:-{User_ID} → {Name, Phone_number, Date_of_Birth, Email, Password, signup_date, Bio}

- Candidate Key: User_ID
- Analysis: Since User_ID is the candidate key and it determines all other attributes, this relation is in BCNF.

2.Admin:-{Admin_ID}→ {Name, Date_of_Birth, Email, Phone_number, Password, Join_date}

- Candidate Key: Admin_ID
- Analysis: Admin_ID is the candidate key and it determines all other attributes, so this relation is in BCNF.

3.Posts:-{Post_ID} →{ Content, Caption, Music, Location}

- Candidate Key: Post_ID
- Analysis: The determinant Post_ID is the candidate key and it determines all other attributes, so this relation is in BCNF.

4.Follow:-{Follower_ID, Followee_ID} →{Followed_at}

- Candidate Key: (Follower_ID, Followee_ID)
- Analysis: The composite key is the determinant, so the relation is in BCNF.

5.Admin_controls:- (No FDs needed, all PK)

- FDs:There are no non-key attributes; the entire tuple
- (Admin_ID,User_ID,Post_ID) forms the key.

- Analysis: Since there are no nontrivial FDs (or only trivial ones), the relation is in BCNF.

6.User_creates_Post:-{User_ID, Post_ID}→ {created_at}

- Candidate Key: (User_ID, Post_ID)
- Analysis: The composite key is the determinant, ensuring BCNF.

7.User_engages_with_posts:- (No FDs needed, all PK)

- FDs: No non-key attributes
- Analysis: With only the key attributes, this relation is trivially in BCNF.

8.Like :-(Trivial, can be ignored)

- FD:Like_ID → Like_ID(trivial)
- Analysis: Only trivial dependencies exist, so no violation.

9.User_likes_post:-{Like_ID} → {Liked_at, User_ID, Post_ID}

- Candidate Key: Like_ID
- Analysis: Since Like_ID (the candidate key) determines all other attributes, BCNF is satisfied.

10.Share:-Trivial, can be ignored

- FD:{Share_ID}→{Share_ID} (trivial)
- Analysis: Trivial FD; BCNF holds.

11.User_shares_post:-{Share_ID} → {Shared_at, User_ID, Post_ID}

- Candidate Key: Share_ID
- Analysis: With Share_ID as the candidate key, this relation is in BCNF.

12.Comment:-{Comment_ID} → {Content}

- Candidate Key: Comment_ID

- Analysis: The candidate key determines all other attributes, so it's in BCNF.

13.User_comments_on_Post{Comment_ID} → {Commented_at, User_ID, Post_ID}

- Candidate Key: Comment_ID
- Analysis: Since Comment_ID is the candidate key, BCNF is satisfied.

14.User_replies_on_comments:-{Main_comment_ID, Reply_comment_ID} → (no non-key attr)

- FD:The composite key {Main_comment_ID,Reply_comment_ID} determines nothing extra (no non-key attributes).
- Analysis: There are no nontrivial FDs; the relation is in BCNF.

15.Report:-{Report_ID} → {Reason}

- Candidate Key: Report_ID
- Analysis: Report_ID is the candidate key, so BCNF holds.

16.User_reports_post:-{Report_ID} → {Reported_at, User_ID, Post_ID}

- Candidate Key: Report_ID
- Analysis: With Report_ID as the candidate key, this relation is in BCNF.

17.Save:- (Trivial, can be ignored)

- FD:{Save_ID}→{Save_ID} (trivial)
- Analysis: Only trivial FD; BCNF is satisfied.

18.User_saves_post:-{Save_ID} → {Saved_at, User_ID, Post_ID}

- Candidate Key: Save_ID
- Analysis: Since Save_ID is the candidate key, this relation is in BCNF.

Therefore, all relations are in BCNF.

→ DDL Script :

```
--1.Admin Table:-

CREATE TABLE Admin (

    Admin_ID SERIAL PRIMARY KEY,

    Name VARCHAR(100),

    Date_of_Birth DATE,

    Email VARCHAR(100) UNIQUE,

    Phone_number VARCHAR(15) UNIQUE,

    Password VARCHAR(100),

    Join_date DATE DEFAULT CURRENT_DATE

);



--2.Users Table:-

CREATE TABLE Users (

    User_ID SERIAL PRIMARY KEY,

    Name VARCHAR(100),

    Phone_number VARCHAR(15) UNIQUE,

    Date_of_Birth DATE,

    Email VARCHAR(100) UNIQUE,

    Password VARCHAR(100),
```

```
    Signup_date DATE DEFAULT CURRENT_DATE,
    Bio TEXT
);

--3.Posts Table:-
CREATE TABLE Posts (
    Post_ID SERIAL PRIMARY KEY,
    Content TEXT,
    Caption TEXT,
    Music VARCHAR(100),
    Location VARCHAR(100),
    Created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
);

--4.Follow Table:-
CREATE TABLE Follow (
    Follower_ID INT,
    Followee_ID INT,
    Followed_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY (Follower_ID, Followee_ID),
    FOREIGN KEY (Follower_ID) REFERENCES Users(User_ID) ON DELETE CASCADE,
```

```
    FOREIGN KEY (Followee_ID) REFERENCES Users(User_ID) ON DELETE CASCADE
);

--5.User_creates_post Table:-
CREATE TABLE User_creates_Post (
    User_ID INT,
    Post_ID INT,
    Created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    PRIMARY KEY (User_ID, Post_ID),
    FOREIGN KEY (User_ID) REFERENCES Users(User_ID) ON DELETE CASCADE,
    FOREIGN KEY (Post_ID) REFERENCES Posts(Post_ID) ON DELETE CASCADE
);

--6. User_engages_with_posts Table:-
CREATE TABLE User_engages_with_posts (
    User_ID INT,
    Post_ID INT,
    PRIMARY KEY (User_ID, Post_ID),
    FOREIGN KEY (User_ID) REFERENCES Users(User_ID) ON DELETE CASCADE,
    FOREIGN KEY (Post_ID) REFERENCES Posts(Post_ID) ON DELETE CASCADE
);
```

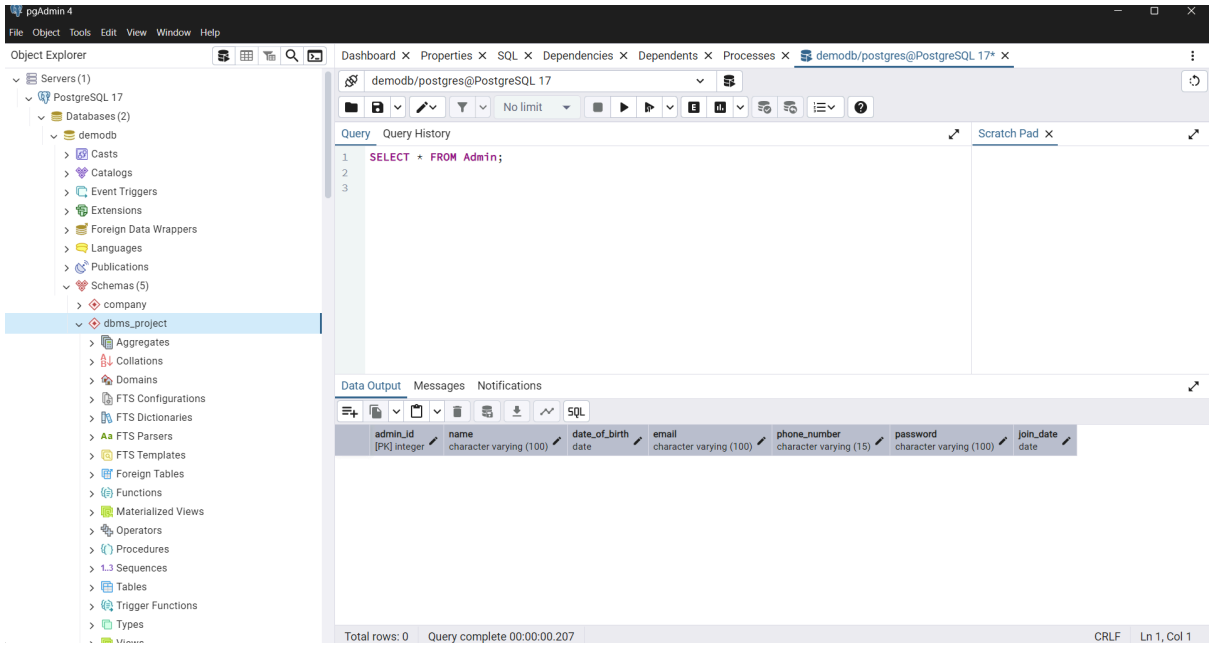
```sql
--7. Likes Table:-
CREATE TABLE Likes (
    Like_ID SERIAL PRIMARY KEY
);

--8. User_likes_post Table:-
CREATE TABLE User_likes_post (
    Like_ID INT PRIMARY KEY,
    Liked_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    User_ID INT,
    Post_ID INT,
    FOREIGN KEY (Like_ID) REFERENCES Likes(Like_ID) ON DELETE CASCADE,
    FOREIGN KEY (User_ID, Post_ID) REFERENCES User_engages_with_posts(User_ID,
Post_ID) ON DELETE CASCADE
);

--9. Shares Table:-
CREATE TABLE Shares (
    Share_ID SERIAL PRIMARY KEY
);
```

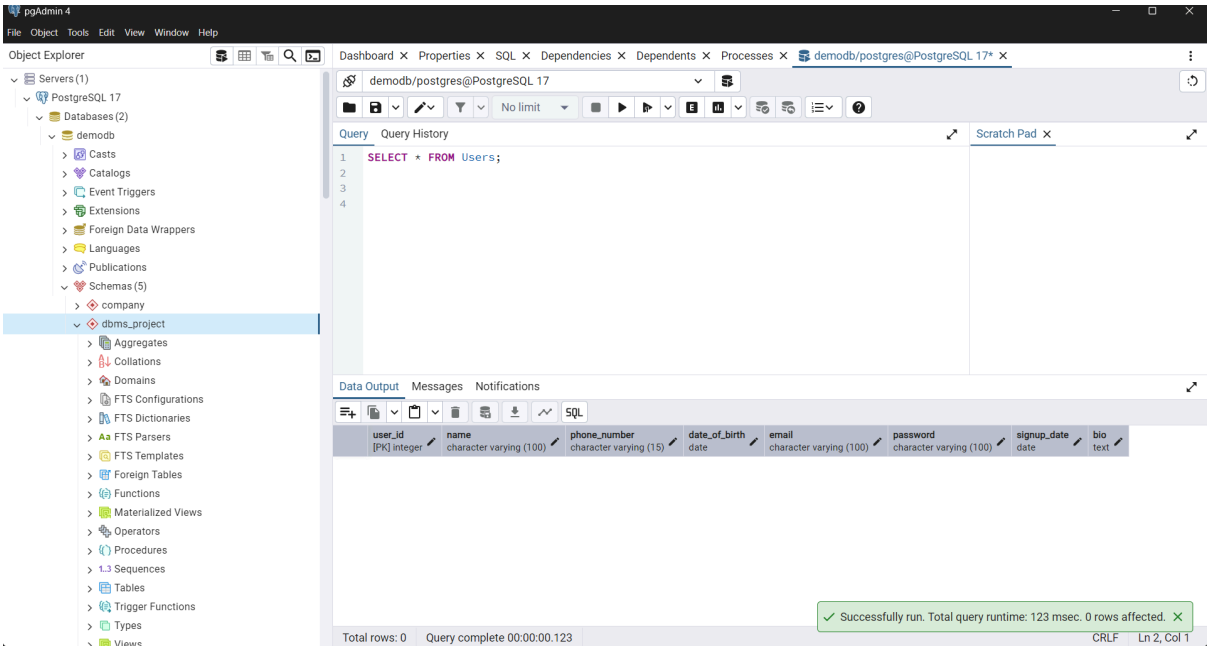
```sql
--10. User_shares_post Table:-

CREATE TABLE User_shares_post (

    Share_ID INT PRIMARY KEY,

    Shared_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

    User_ID INT,

    Post_ID INT,

    FOREIGN KEY (Share_ID) REFERENCES Shares(Share_ID) ON DELETE CASCADE,

    FOREIGN KEY (User_ID, Post_ID) REFERENCES User_engages_with_posts(User_ID,
Post_ID) ON DELETE CASCADE

);



--11.Comments Table:-

CREATE TABLE Comments (

    Comment_ID SERIAL PRIMARY KEY,

    Content TEXT

);

--12. User_comments_on_post Table:-

CREATE TABLE User_comments_on_post (

    Comment_ID INT PRIMARY KEY,

    Commented_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

    User_ID INT,

    Post_ID INT,
```

```
    FOREIGN KEY (Comment_ID) REFERENCES Comments(Comment_ID) ON DELETE CASCADE,

    FOREIGN KEY (User_ID, Post_ID) REFERENCES User_engages_with_posts(User_ID,
Post_ID) ON DELETE CASCADE

);

--13. User_replies_on_comments Table:-

CREATE TABLE User_replies_on_comments (

    Main_comment_ID INT,

    Reply_comment_ID INT,

    PRIMARY KEY (Reply_comment_ID),

    FOREIGN KEY (Main_comment_ID) REFERENCES Comments(Comment_ID) ON DELETE
CASCADE,

    FOREIGN KEY (Reply_comment_ID) REFERENCES Comments(Comment_ID) ON DELETE
CASCADE

);

--14.Saves Table:-

CREATE TABLE Saves (

    Save_ID SERIAL PRIMARY KEY

);

--15.User_saves_post Table:-

CREATE TABLE User_saves_post (

    Save_ID INT PRIMARY KEY,

    Saved_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
```

```
    User_ID INT,

    Post_ID INT,

    FOREIGN KEY (Save_ID) REFERENCES Saves(Save_ID) ON DELETE CASCADE,

    FOREIGN KEY (User_ID, Post_ID) REFERENCES User_engages_with_posts(User_ID,
Post_ID) ON DELETE CASCADE

);

--16.Reports Table:-

CREATE TABLE Reports (

    Report_ID SERIAL PRIMARY KEY,

    Reason TEXT

);

--17. User_reports_post Table:-

CREATE TABLE User_reports_post (

    Report_ID INT PRIMARY KEY,

    Reported_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP,

    User_ID INT,

    Post_ID INT,

    FOREIGN KEY (Report_ID) REFERENCES Reports(Report_ID) ON DELETE CASCADE,

    FOREIGN KEY (User_ID, Post_ID) REFERENCES User_engages_with_posts(User_ID,
Post_ID) ON DELETE CASCADE

);
```

```sql
--18. Admin_controls Table

CREATE TABLE Admin_controls (

    Admin_ID INT,

    User_ID INT,

    Post_ID INT,

    PRIMARY KEY (Admin_ID, User_ID, Post_ID),

    FOREIGN KEY (Admin_ID) REFERENCES Admin(Admin_ID) ON DELETE CASCADE,

    FOREIGN KEY (User_ID) REFERENCES Users(User_ID) ON DELETE CASCADE,

    FOREIGN KEY (Post_ID) REFERENCES Posts(Post_ID) ON DELETE CASCADE

);
```

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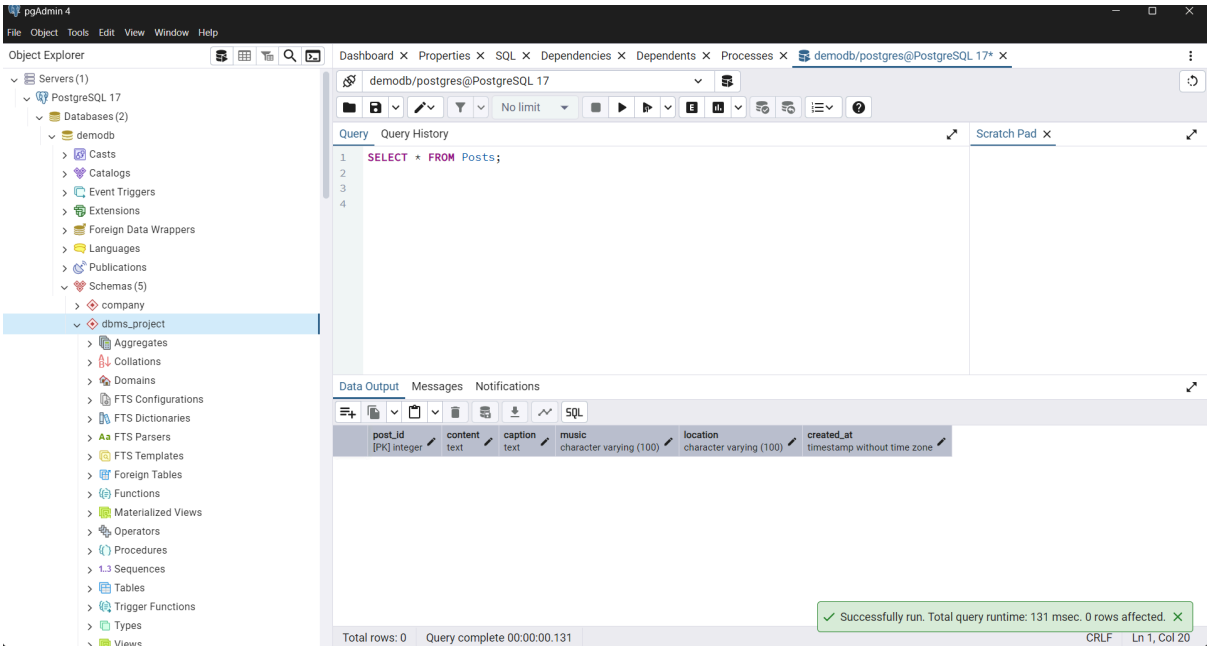
demodb/postgres@PostgreSQL 17*
demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
SELECT * FROM Users;
Data Output
Messages
Notifications
SQL
user_id [PK] integer
name character varying (100)
phone_number character varying (15)
date_of_birth date
email character varying (100)
password character varying (100)
signup_date date
bio text
Successfully run. Total query runtime: 123 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.123
CRLF
Ln 2, Col 1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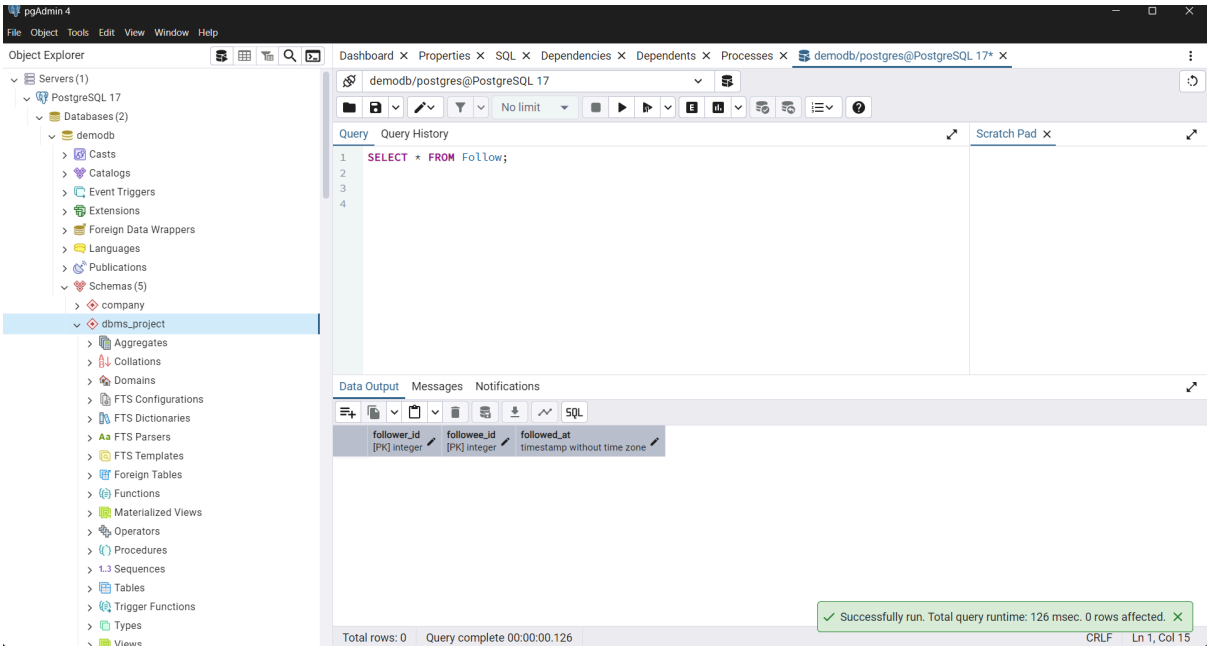
Processes
demodb/postgres@PostgreSQL 17*
demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
SELECT * FROM Posts;
Data Output
Messages
Notifications
SQL
post_id [PK] integer
content text
caption text
music character varying (100)
location character varying (100)
created_at timestamp without time zone
Successfully run. Total query runtime: 131 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.131
CRLF
Ln 1, Col 20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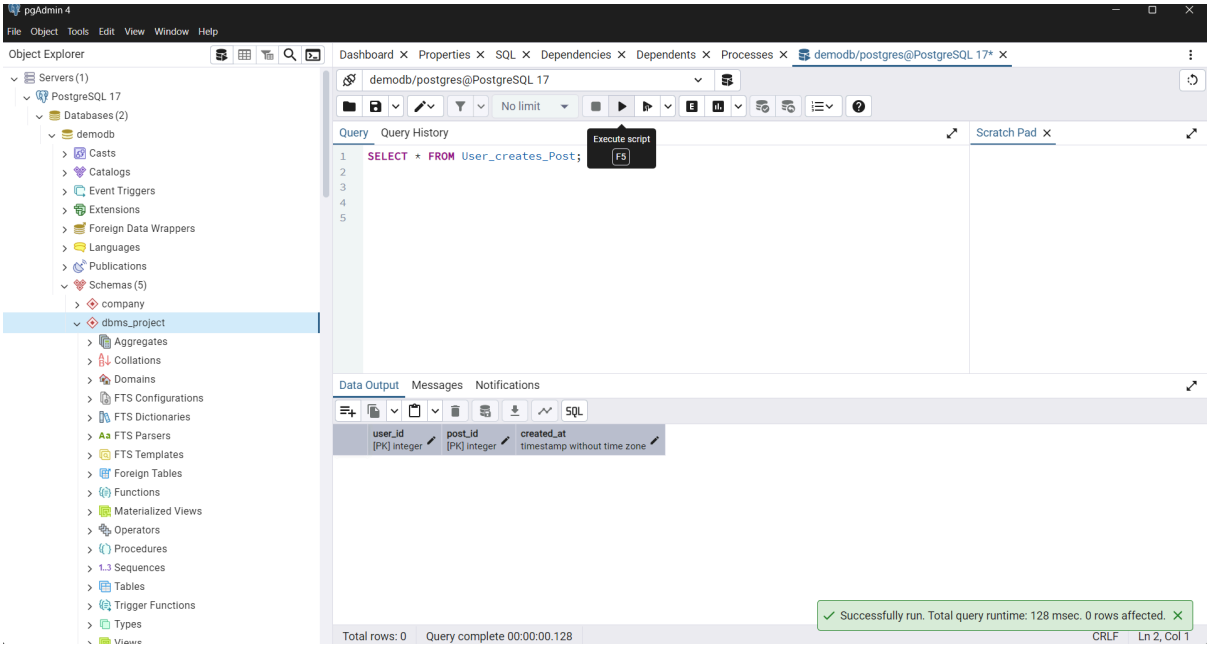
demodb/postgres@PostgreSQL 17*
demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
SELECT * FROM Follow;
Data Output
Messages
Notifications
SQL
follower_id [PK] integer
followee_id [PK] integer
followed_at timestamp without time zone
Successfully run. Total query runtime: 126 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.126
CRLF
Ln 1, Col 15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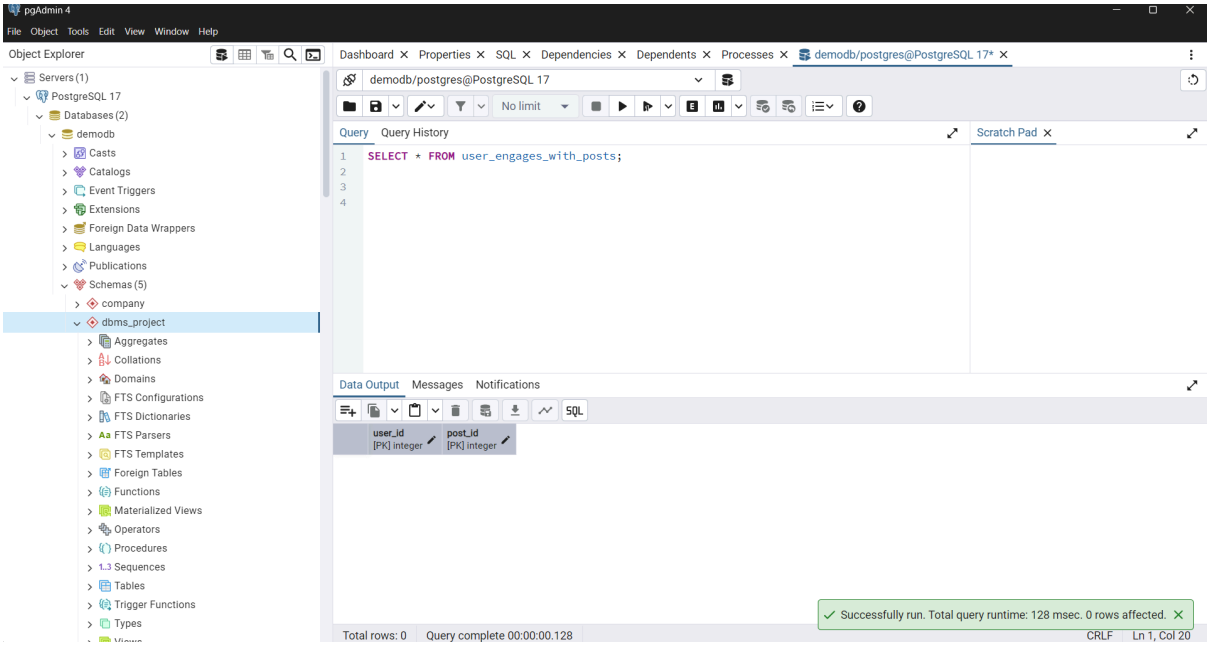
Processes
demodb/postgres@PostgreSQL 17*
demodb/postgres@PostgreSQL 17
No limit
Execute script
F5
Query
Query History
Scratch Pad
SELECT * FROM User_creates_Post;
Data Output
Messages
Notifications
SQL
user_id [PK] integer
post_id [PK] integer
created_at timestamp without time zone
Successfully run. Total query runtime: 128 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.128
CRLF
Ln 2, Col 1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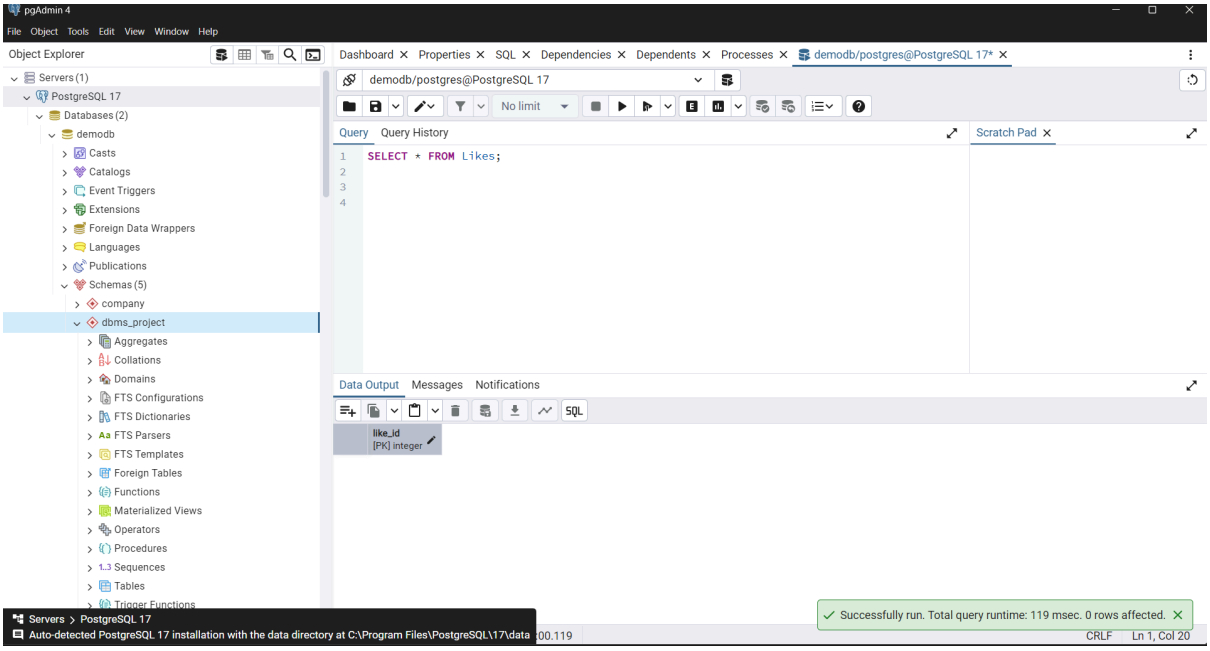
demodb/postgres@PostgreSQL 17*
demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
SELECT * FROM user_engages_with_posts;
Data Output
Messages
Notifications
SQL
user_id
[PK] integer
post_id
[PK] integer
Successfully run. Total query runtime: 128 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.128
CRLF
Ln 1, Col 20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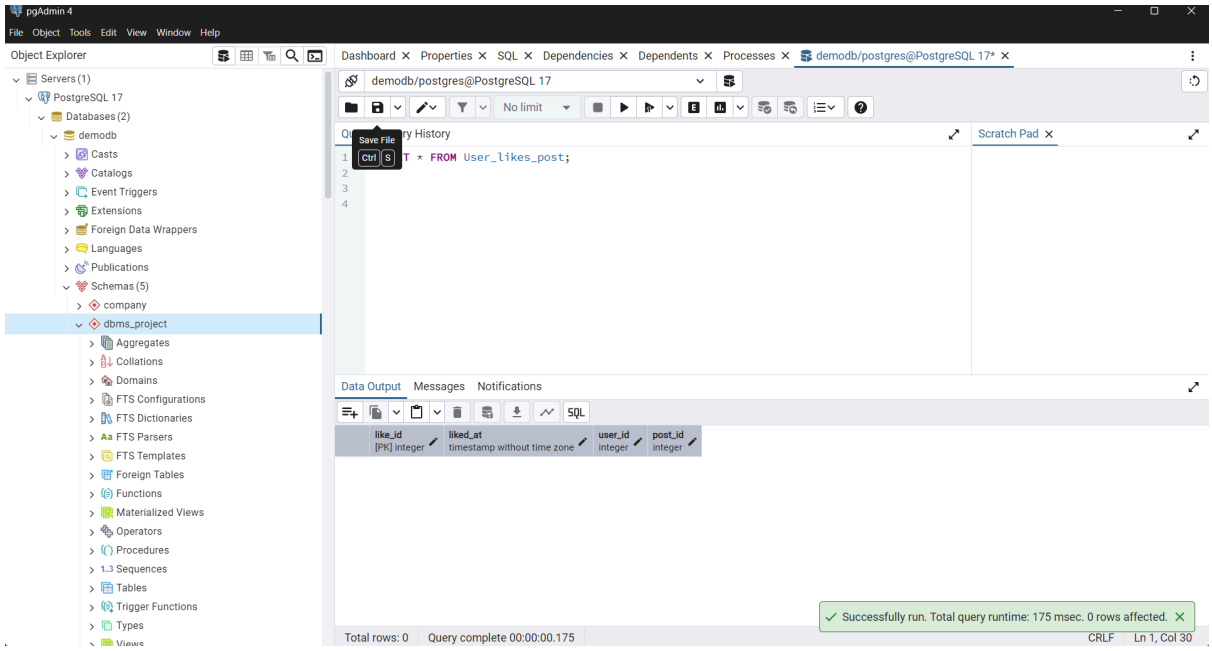
demodb/postgres@PostgreSQL 17*
demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
SELECT * FROM Likes;
Data Output
Messages
Notifications
SQL
like_id
[PK] integer
Successfully run. Total query runtime: 119 msec. 0 rows affected.
Servers > PostgreSQL 17
Auto-detected PostgreSQL 17 installation with the data directory at C:\Program Files\PostgreSQL\17\data
CRLF
Ln 1, Col 20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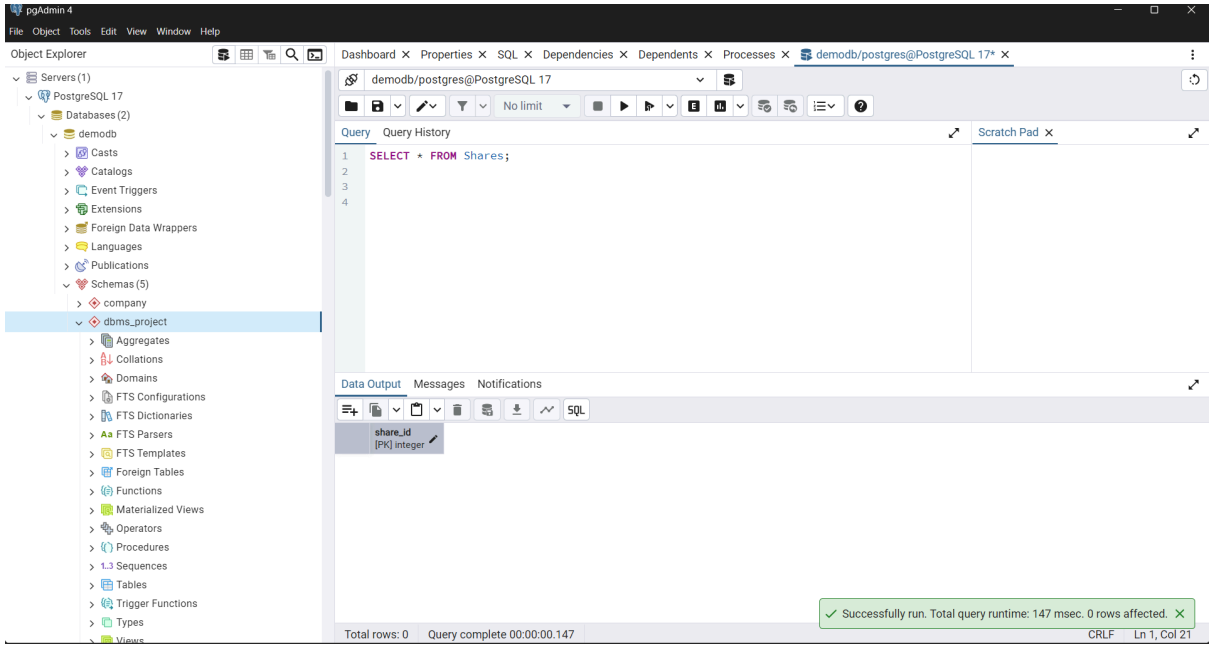
demodb/postgres@PostgreSQL 17*
demodb/postgres@PostgreSQL 17
No limit
Save File
Ctrl S
Query History
Scratch Pad
1 T * FROM User_likes_post;
Data Output
Messages
Notifications
SQL
like_id
[PK] integer
liked_at
timestamp without time zone
user_id
integer
post_id
integer
Successfully run. Total query runtime: 175 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.175
CRLF
Ln 1, Col 30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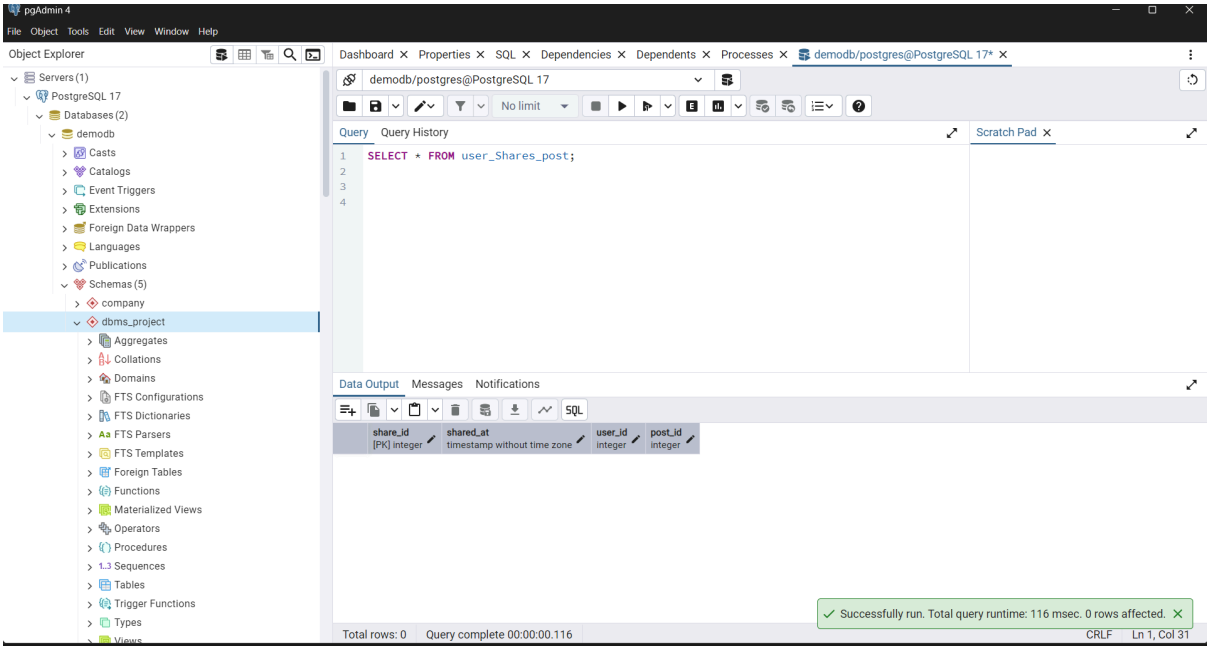
Dependencies
Dependents
Processes
demodb/postgres@PostgreSQL 17*
demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
1 SELECT * FROM Shares;
Data Output
Messages
Notifications
SQL
share_id
[PK] integer
Successfully run. Total query runtime: 147 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.147
CRLF
Ln 1, Col 21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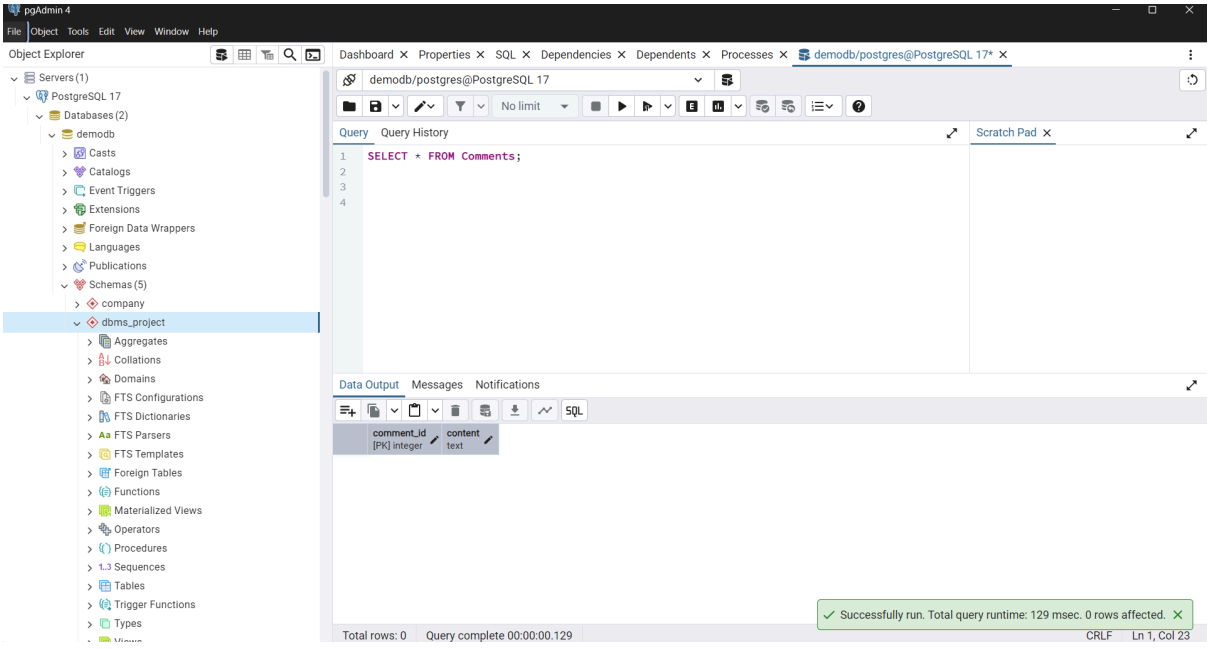
Query History
Scratch Pad
SELECT * FROM user_Shares_post;
Data Output
Messages
Notifications
share_id
[PK] integer
shared_at
timestamp without time zone
user_id
integer
post_id
integer
Successfully run. Total query runtime: 116 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.116
CRLF
Ln 1, Col 31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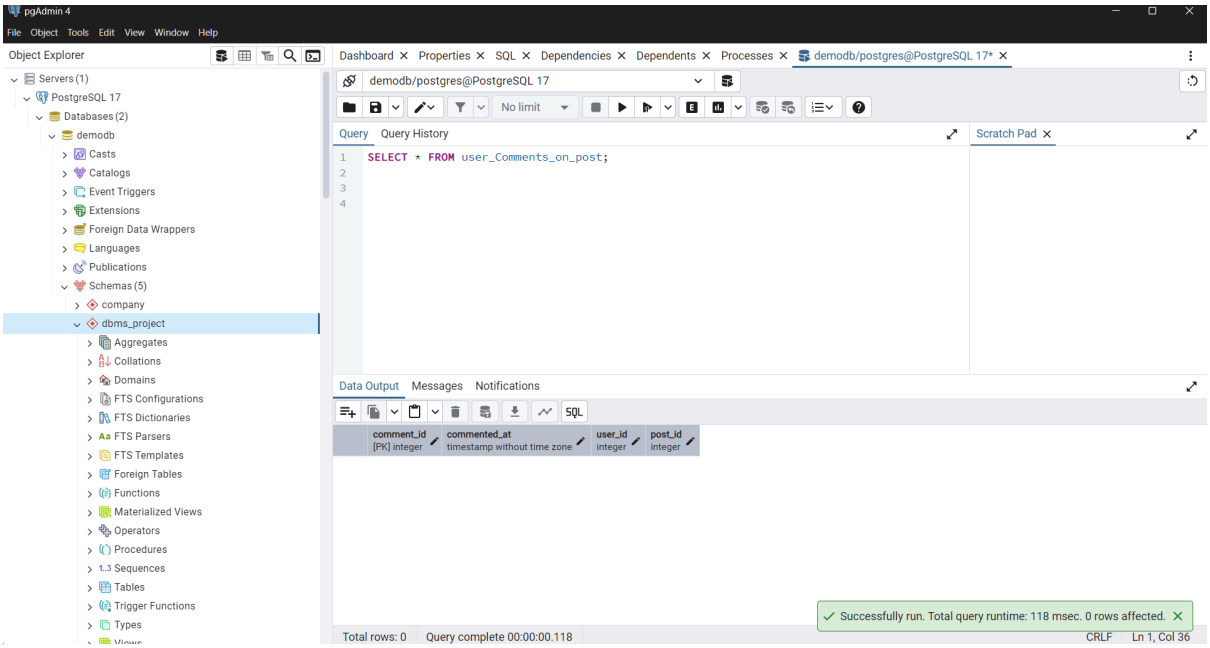
demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
SELECT * FROM Comments;
Data Output
Messages
Notifications
comment_id
[PK] integer
content
text
Successfully run. Total query runtime: 129 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.129
CRLF
Ln 1, Col 23


pgAdmin 4
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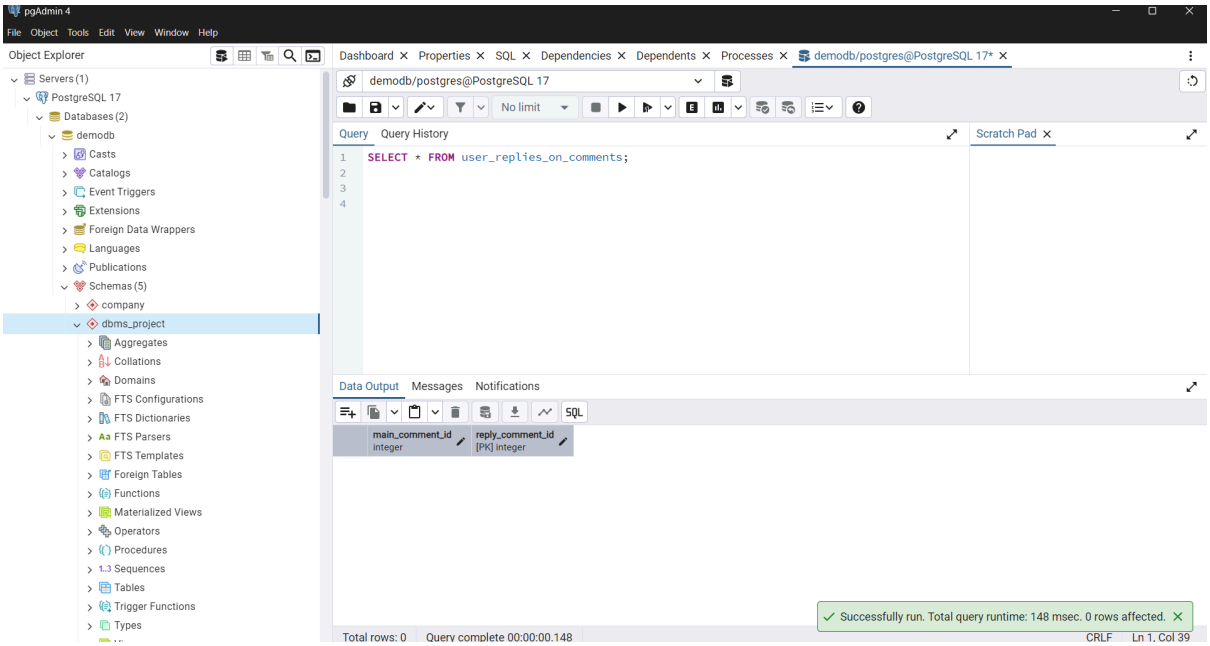
demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
SELECT * FROM user_Comments_on_post;
Data Output
Messages
Notifications
SQL
comment_id
[PK] integer
commented_at
timestamp without time zone
user_id
integer
post_id
integer
Successfully run. Total query runtime: 118 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.118
CRLF
Ln 1, Col 36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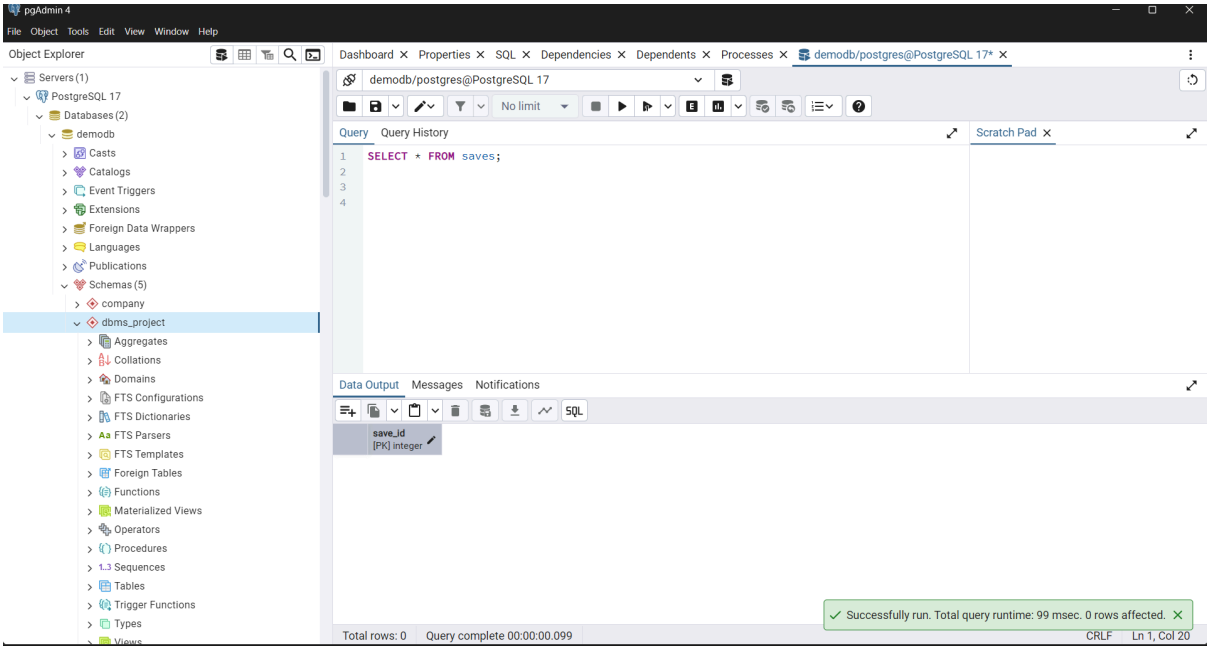
Query
Query History
Scratch Pad
SELECT * FROM user_replies_on_comments;
Data Output
Messages
Notifications
SQL
main_comment_id
integer
reply_comment_id
[PK] integer
Successfully run. Total query runtime: 148 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.148
CRLF
Ln 1, Col 39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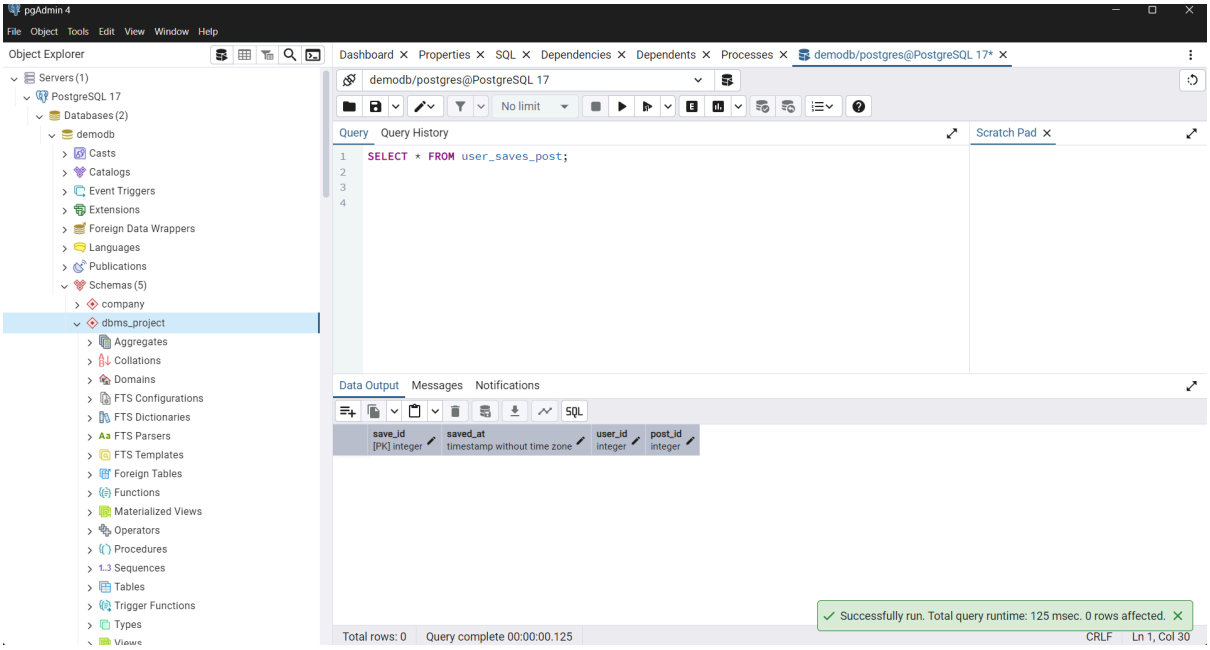
demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
SELECT * FROM saves;
Data Output
Messages
Notifications
save_id
[PK] integer
Successfully run. Total query runtime: 99 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.099
CRLF
Ln 1, Col 20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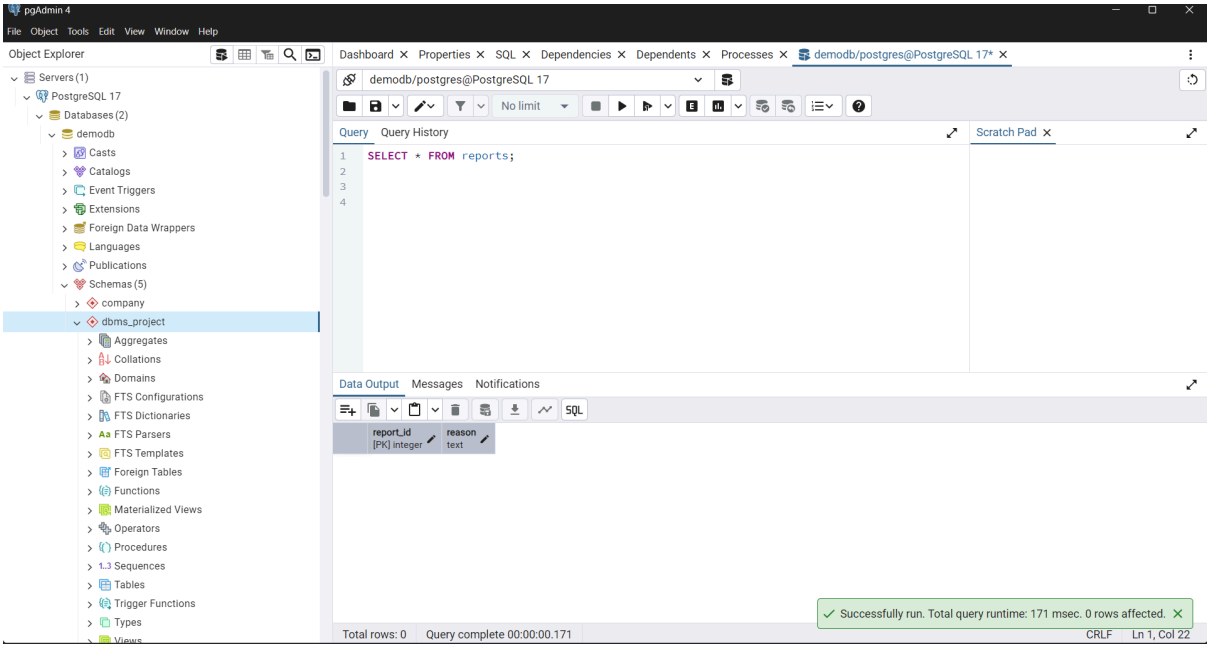
demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Scratch Pad
SELECT * FROM user_saves_post;
Data Output
Messages
Notifications
save_id
[PK] integer
saved_at
timestamp without time zone
user_id
integer
post_id
integer
Successfully run. Total query runtime: 125 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.125
CRLF
Ln 1, Col 30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No limit
Query Query History
Scratch Pad
1 SELECT * FROM reports;
Data Output Messages Notifications
SQL
report_id [PK] integer
reason text
Successfully run. Total query runtime: 171 msec. 0 rows affected.
Total rows: 0 Query complete 00:00:00.171
CRLF Ln 1, Col 22
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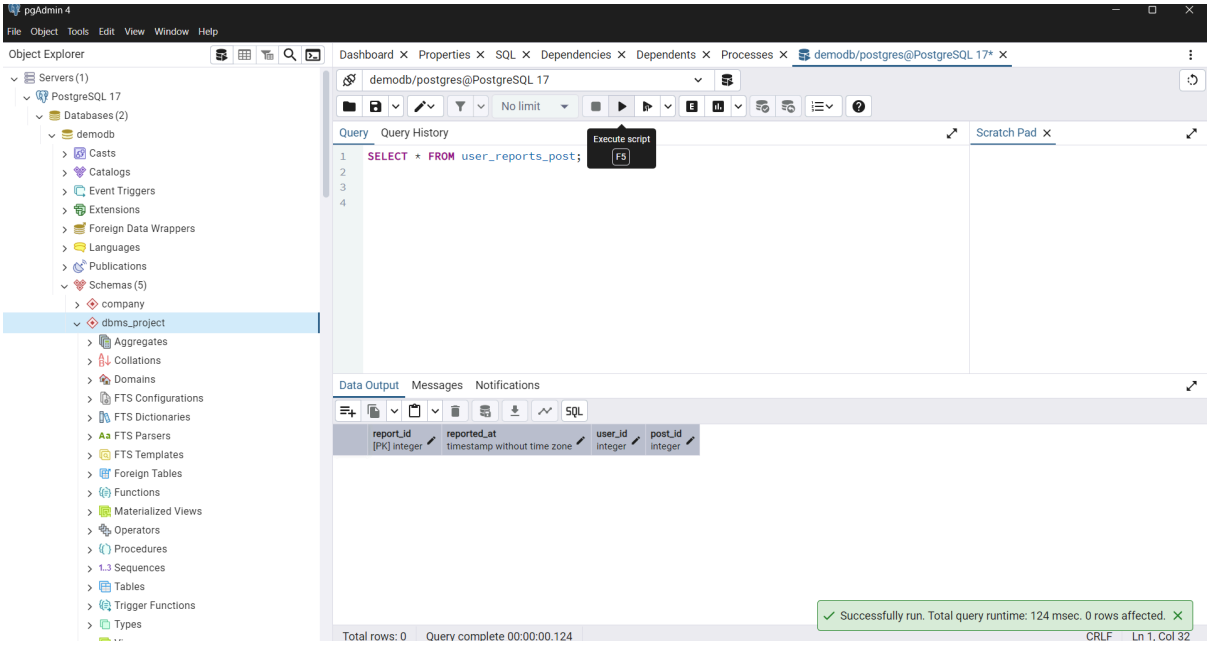
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No limit
Query Query History
Execute script
F5
Scratch Pad
1 SELECT * FROM user_reports_post;
Data Output Messages Notifications
SQL
report_id [PK] integer
reported_at timestamp without time zone
user_id integer
post_id integer
Successfully run. Total query runtime: 124 msec. 0 rows affected.
Total rows: 0 Query complete 00:00:00.124
CRLF Ln 1, Col 32
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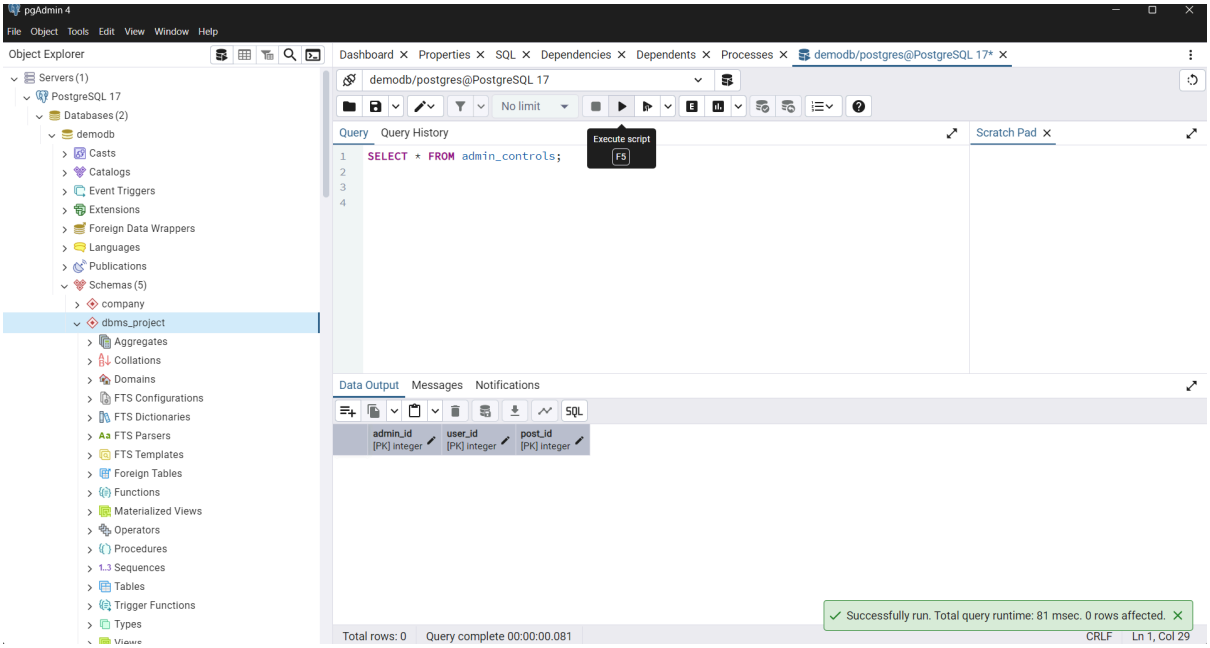
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demodb/postgres@PostgreSQL 17
No limit
Query
Query History
Execute script
F5
SELECT * FROM admin_controls;
Scratch Pad
Data Output
Messages
Notifications
SQL
admin_id
[PK] integer
user_id
[PK] integer
post_id
[PK] integer
Successfully run. Total query runtime: 81 msec. 0 rows affected.
Total rows: 0
Query complete 00:00:00.081
CRLF
Ln 1, Col 29