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The screenshot shows the PgAdmin 4 interface. The left sidebar displays the database structure under 'Servers (1) > PostgreSQL 14 > Databases (2) > Sigmoid'. The 'Query Editor' tab is active, showing the SQL code for creating the 'dept' table:

```
1 CREATE TABLE dept (
2 deptno NUMERIC(2) NOT NULL CONSTRAINT dept_pk PRIMARY KEY,
3 dname VARCHAR(14) CONSTRAINT dept_dname_uq UNIQUE,
4 loc VARCHAR(13)
5 );
```

The 'Messages' tab at the bottom indicates that the query was executed successfully.

The screenshot shows the PgAdmin 4 interface. The left sidebar displays the database structure under 'Servers (1) > PostgreSQL 14 > Databases (2) > Sigmoid'. The 'Query Editor' tab is active, showing the SQL code for creating the 'emp' table:

```
1 CREATE TABLE emp (
2 empno NUMERIC(4) NOT NULL CONSTRAINT emp_pk PRIMARY KEY,
3 ename VARCHAR(10),
4 job VARCHAR(9),
5 mgr NUMERIC(4),
6 hiredate DATE,
7 sal NUMERIC(7,2) CONSTRAINT emp_sal_ck CHECK (sal > 0),
8 comm NUMERIC(7,2),
9 deptno NUMERIC(2) CONSTRAINT emp_ref_dept_fk
10 REFERENCES dept(deptno)
11 );
```

The 'Messages' tab at the bottom indicates that the query was executed successfully in 47 msec. A green message box at the bottom right also states "Query returned successfully in 47 msec."

pgAdmin 4 Edit Window

Servers (1)
 PostgreSQL 14 Databases (2)
 Sigmoid
 Casts Catalogs Event Triggers Extensions Foreign Data Wrappers Languages Publications Schemas Subscriptions postgres Login/Group Roles Tablespaces

Query Editor Query History

```

1 CREATE TABLE jobhist (
2   empno NUMERIC(4) NOT NULL,
3   startdate DATE NOT NULL,
4   enddate DATE,
5   job VARCHAR(9),
6   sal NUMERIC(7,2),
7   comm NUMERIC(7,2),
8   deptno NUMERIC(2),
9   chgdesc VARCHAR(80),
10  CONSTRAINT jobhist_pk PRIMARY KEY (empno, startdate),
11  CONSTRAINT jobhist_ref_emp_fk FOREIGN KEY (empno)
12  REFERENCES emp(empno) ON DELETE CASCADE,
13  CONSTRAINT jobhist_ref_dept_fk FOREIGN KEY (deptno)
14  REFERENCES dept(deptno) ON DELETE SET NULL,
15  CONSTRAINT jobhist_date_chk CHECK (startdate <= enddate)
16 );

```

Data Output Explain Messages Notifications

CREATE TABLE

Query returned successfully in 28 msec.

✓ Query returned successfully in 28 msec.

pgAdmin File Object Tools Help

Browser Servers (1)
 PostgreSQL 14 Databases (2)
 Sigmoid Casts Catalogs Event Triggers Extensions Foreign Data Wrappers Languages Publications Schemas (1)
 public Aggregates Collations Domains FTS Configurations FTS Dictionaries FTS Parsers FTS Templates Foreign Tables Functions Materialized Views Operators Procedures Sequences Tables (3)
 dept emp jobhist Trigger Functions Types Views Subscriptions postgres

Dashboard Properties SQL Statistics Dependencies Dependents S Sigmoid/postgres@PostgreSQL 14 *

Query Editor Query History

```

1 CREATE OR REPLACE VIEW salesemp AS
2 SELECT empno, ename, hiredate, sal, comm FROM emp WHERE job = 'SALESMAN';

```

Data Output Explain Messages Notifications

CREATE VIEW

Query returned successfully in 43 msec.

✓ Query returned successfully in 43 msec.

PgAdmin

Browser

- Servers (1)
 - PostgreSQL 14
 - Databases (2)
 - Sigmoid

Dashboard Properties SQL Statistics Dependencies Dependents Sigmoid/postgres@PostgreSQL 14*

Query Editor Query History

```
1 CREATE SEQUENCE next_emplno START WITH 8000 INCREMENT BY 1;
```

Data Output Explain Messages Notifications

CREATE SEQUENCE

Query returned successfully in 38 msec.

✓ Query returned successfully in 38 msec.

PgAdmin

Browser

- Servers (1)
 - PostgreSQL 14
 - Databases (2)
 - Sigmoid

Dashboard Properties SQL Statistics Dependencies Dependents Sigmoid/postgres@PostgreSQL 14*

Query Editor Query History

```
1 GRANT ALL ON emp TO PUBLIC;
2 GRANT ALL ON dept TO PUBLIC;
3 GRANT ALL ON jobhist TO PUBLIC;
4 GRANT ALL ON saleemp TO PUBLIC;
5 GRANT ALL ON next_emplno TO PUBLIC;
```

Data Output Explain Messages Notifications

GRANT

Query returned successfully in 33 msec.

✓ Query returned successfully in 33 msec.

PgAdmin File Object Tools Help

Browser

- Servers (1)
 - PostgreSQL 14
 - Databases (2)
 - Sigmoid

Dashboard Properties SQL Statistics Dependencies Dependents Sigmoid/postgres@PostgreSQL 14 *

Query Editor Query History

```

1 INSERT INTO dept VALUES (10,'ACCOUNTING','NEW YORK');
2 INSERT INTO dept VALUES (20,'RESEARCH','DALLAS');
3 INSERT INTO dept VALUES (30,'SALES','CHICAGO');
4 INSERT INTO dept VALUES (40,'OPERATIONS','BOSTON');

```

Data Output Explain Messages Notifications

INSERT 0 1

Query returned successfully in 43 msec.

✓ Query returned successfully in 43 msec.

PgAdmin File Object Tools Help

Browser

- Databases (2)
 - Sigmoid

Dashboard Properties SQL Statistics Dependencies Dependents Sigmoid/postgres@PostgreSQL 14 *

Query Editor Query History

```

1 INSERT INTO dept VALUES (10,'ACCOUNTING','NEW YORK');
2 INSERT INTO dept VALUES (20,'RESEARCH','DALLAS');
3 INSERT INTO dept VALUES (30,'SALES','CHICAGO');
4 INSERT INTO dept VALUES (40,'OPERATIONS','BOSTON');
5
6 SELECT * FROM dept;

```

Data Output Explain Messages Notifications

deptno	dname	loc
10	ACCOUNTING	NEW YORK
20	RESEARCH	DALLAS
30	SALES	CHICAGO
40	OPERATIONS	BOSTON

PgAdmin File Object Tools Help

Browser

- Databases (2)
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 - Sequences
 - Tables (3)
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 - emp
 - jobhist
 - Trigger Functions
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 - postgres
 - Login/Group Roles
 - Tablespaces

Dashboard Properties SQL Statistics Dependencies Dependents Sigmoid/postgres@PostgreSQL 14*

Query Editor Query History

```

1 INSERT INTO emp VALUES (7369,'SMITH','CLERK',7902,'17-DEC-80',800,NULL,20);
2 INSERT INTO emp VALUES (7499,'ALLEN','SALESMAN',7698,'20-FEB-81',1600,300,30);
3 INSERT INTO emp VALUES (7521,'WARD','SALESMAN',7698,'22-FEB-81',1250,500,30);
4 INSERT INTO emp VALUES (7566,'JONES','MANAGER',7839,'02-APR-81',2975,NULL,20);
5 INSERT INTO emp VALUES (7654,'MARTIN','SALESMAN',7698,'28-SEP-81',1250,1400,30);
6 INSERT INTO emp VALUES (7698,'BLAKE','MANAGER',7839,'01-MAY-81',2850,NULL,30);
7 INSERT INTO emp VALUES (7782,'CLARK','MANAGER',7839,'09-JUN-81',2450,NULL,10);
8 INSERT INTO emp VALUES (7788,'SCOTT','ANALYST',7566,'19-APR-87',3000,NULL,20);
9 INSERT INTO emp VALUES (7839,'KING','PRESIDENT',NULL,'17-NOV-81',5000,NULL,10);
10 INSERT INTO emp VALUES (7844,'TURNER','SALESMAN',7698,'08-SEP-81',1500,0,30);
11 INSERT INTO emp VALUES (7876,'ADAMS','CLERK',7788,'23-MAY-87',1100,NULL,20);
12 INSERT INTO emp VALUES (7900,'JAMES','CLERK',7698,'03-DEC-81',950,NULL,30);
13 INSERT INTO emp VALUES (7902,'FORD','ANALYST',7566,'03-DEC-81',3000,NULL,20);
14 INSERT INTO emp VALUES (7934,'MILLER','CLERK',7782,'23-JAN-82',1300,NULL,10);
15
16 SELECT * FROM emp;

```

Data Output Explain Messages Notifications

empno	ename	job	mgr	hiredate	sal	comm	deptno
1	7369	SMITH	CLERK	7902	1980-12-17	800.00	[null]
2	7499	ALLEN	SALESMAN	7698	1981-02-20	1600.00	300.00
3	7521	WARD	SALESMAN	7698	1981-02-22	1250.00	500.00
4	7566	JONES	MANAGER	7839	1981-04-02	2975.00	[null]
5	7654	MARTIN	SALESMAN	7698	1981-09-28	1250.00	1400.00
6	7698	BLAKE	MANAGER	7839	1981-05-01	2850.00	[null]
7	7782	CLARK	MANAGER	7839	1981-06-09	2450.00	[null]
8	7788	SCOTT	ANALYST	7566	1987-04-19	3000.00	[null]
9	7839	KING	PRESIDENT	[null]	1981-11-17	5000.00	[null]
10	7844	TURNER	SALESMAN	7698	1981-09-08	1500.00	0.00
11	7876	ADAMS	CLERK	7788	1987-05-23	1100.00	[null]
12	7900	JAMES	CLERK	7698	1981-12-05	1300.00	[null]

Successfully run. Total query runtime: 48 msec. 14 rows affected.

PgAdmin File Object Tools Help

Browser

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Dashboard Properties SQL Statistics Dependencies Dependents Sigmoid/postgres@PostgreSQL 14*

Query Editor Query History

```

4 INSERT INTO jobhist VALUES (7566,'02-APR-81',NULL,'MANAGER',2975,NULL,20,'New Hire');
5 INSERT INTO jobhist VALUES (7654,'28-SEP-81',NULL,'SALESMAN',1250,1400,30,'New Hire');
6 INSERT INTO jobhist VALUES (7698,'01-MAY-81',NULL,'MANAGER',2850,NULL,30,'New Hire');
7 INSERT INTO jobhist VALUES (7782,'09-JUN-81',NULL,'MANAGER',2450,NULL,10,'New Hire');
8 INSERT INTO jobhist VALUES (7788,'19-APR-87','12-APR-88','CLERK',1000,NULL,20,'New Hire');
9 INSERT INTO jobhist VALUES (7788,'13-APR-88','04-MAY-89','CLERK',1040,NULL,20,'Raise');
10 INSERT INTO jobhist VALUES (7788,'05-MAY-90',NULL,'ANALYST',3000,NULL,20,'Promoted to Analyst');
11 INSERT INTO jobhist VALUES (7839,'17-NOV-81',NULL,'PRESIDENT',5000,NULL,10,'New Hire');
12 INSERT INTO jobhist VALUES (7844,'08-SEP-81',NULL,'SALESMAN',1500,0,30,'New Hire');
13 INSERT INTO jobhist VALUES (7876,'23-MAY-87',NULL,'CLERK',1100,NULL,20,'New Hire');
14 INSERT INTO jobhist VALUES (7900,'03-DEC-81','14-JAN-83','CLERK',950,NULL,10,'New Hire');
15 INSERT INTO jobhist VALUES (7900,'15-JAN-83',NULL,'CLERK',950,NULL,30,'Changed to Director');
16 INSERT INTO jobhist VALUES (7902,'03-DEC-81',NULL,'ANALYST',3000,NULL,20,'New Hire');
17 INSERT INTO jobhist VALUES (7934,'23-JAN-82',NULL,'CLERK',1300,NULL,10,'New Hire');
18
19 SELECT * FROM jobhist;

```

Data Output Explain Messages Notifications

empno	startdate	enddate	job	sal	comm	deptno	chngdesc
1	7369	1980-12-17	[null]	CLERK	800.00	[null]	20 New Hire
2	7499	1981-02-20	[null]	SALESMAN	1600.00	300.00	30 New Hire
3	7521	1981-02-22	[null]	SALESMAN	1250.00	500.00	30 New Hire
4	7566	1981-04-02	[null]	MANAGER	2975.00	[null]	20 New Hire
5	7654	1981-09-28	[null]	SALESMAN	1250.00	1400.00	30 New Hire
6	7698	1981-05-01	[null]	MANAGER	2850.00	[null]	30 New Hire
7	7782	1981-06-09	[null]	MANAGER	2450.00	[null]	10 New Hire
8	7788	1988-04-13	1989-05-04	CLERK	1000.00	[null]	20 New Hire
9	7788	1988-04-13	1989-05-04	CLERK	1040.00	[null]	20 Raise
10	7788	1990-05-05	[null]	ANALYST	3000.00	[null]	20 Promoted to Analyst
11	7839	1981-11-17	[null]	PRESIDENT	5000.00	[null]	10 New Hire
12	7844	1981-09-08	[null]	SALESMAN	1500.00	[null]	20 New Hire

Successfully run. Total query runtime: 43 msec. 17 rows affected.