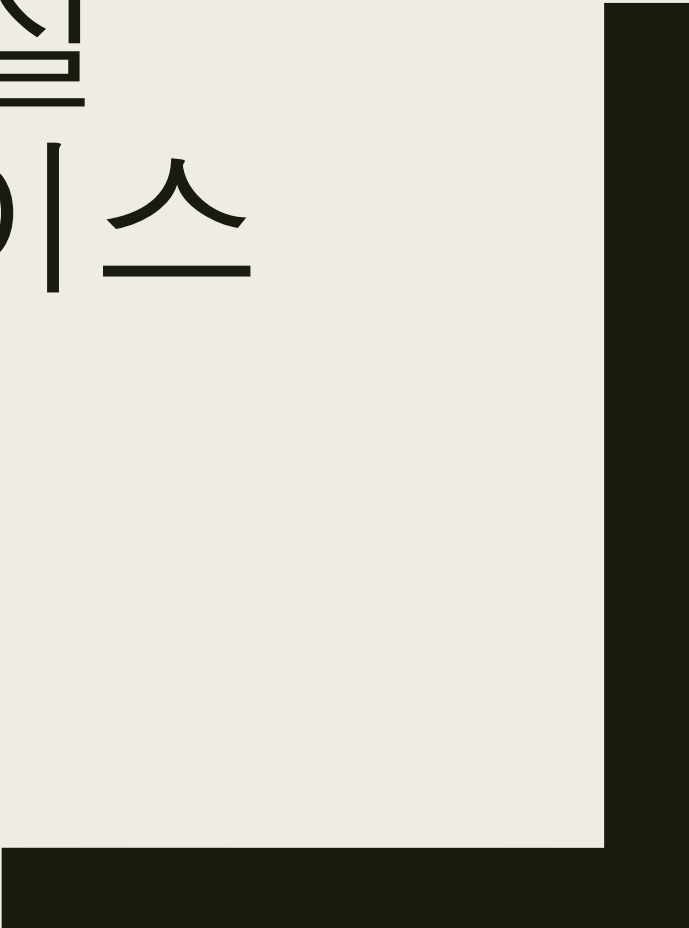





미국 중환자실 오픈데이터베이스 MIMIC-III

Postgres DB에 데이터 올리기와
데이터 조회하기



1. Postgres 설치

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23rd May 2019: [PostgreSQL 12 Beta 1 Released!](#)

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Windows installers

Interactive installer by EnterpriseDB

Download the installer certified by EnterpriseDB for all supported PostgreSQL versions.

This installer includes the PostgreSQL server, pgAdmin; a graphical tool for managing and be used to download and install additional PostgreSQL tools and drivers. Stackbuilder includes connectors and other tools.

This installer can run in graphical or silent install modes.

The installer is designed to be a straightforward, fast way to get up and running with PostgreSQL. *Advanced users* can also download **a zip archive** of the binaries, without the installer. This is another application installer.

Platform support

The installers are tested by EnterpriseDB on the following platforms. They can generally be used on other platforms as well.

PostgreSQL Version	64 Bit Windows Platforms
11	2019, 2016, 2012 R2

상용버전

무료버전

2. Postgres에 테이블 생성

- 7zip 꼭 설치 필요 (데이터 업로드시에 사용함)
- 테이블 생성과 업로드는 SQL shell에서 실행
- 필요한 코드 : <https://github.com/MIT-LCP/mimic-code/tree/master/buildmimic/postgres>
- 샘플 데이터 : <https://physionet.org/works/MIMICIIIClinicalDatabaseDemo/>

```
-- DB 와 테이블 생성
DROP DATABASE IF EXISTS mimic;
CREATE DATABASE mimic OWNER postgres;

\c mimic;

CREATE SCHEMA mimiciii;

set search_path to mimiciii;

\i D:/work/mimic-code/buildmimic/postgres/postgres_create_tables.sql

-- 데이터 업로드
\set ON_ERROR_STOP 1

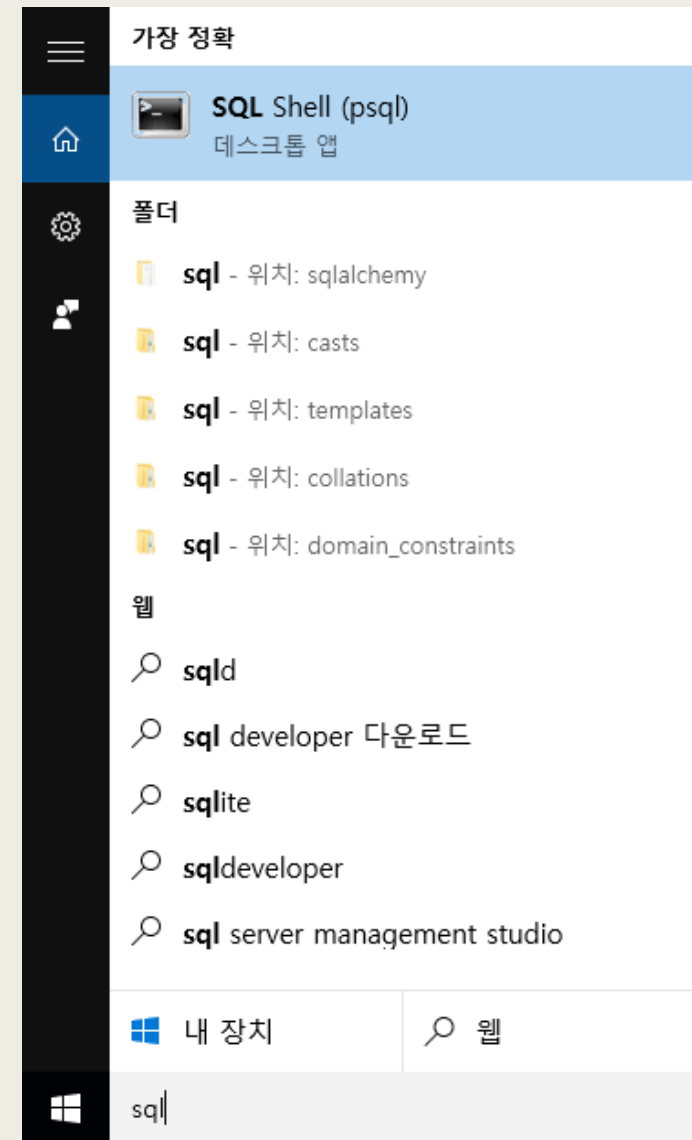
\set mimic_data_dir 'D:/mimic/v1_4\'

\i D:/work/mimic-code/buildmimic/postgres/postgres_load_data_7zip.sql

-- INDEX 생성 : 데이터에 대한 주소 생성
\i D:/work/mimic-code/buildmimic/postgres/postgres_add_indexes.sql

-- 데이터 개수 확인
\i D:/work/mimic-code/buildmimic/postgres/postgres_checks.sql

\i D:/work/mimic-code/buildmimic/postgres/postgres_add_comments.sql
```



3. 데이터 조회-도구

<https://dbeaver.io/>



DBBeaver Community

Free Universal Database Tool



9,325



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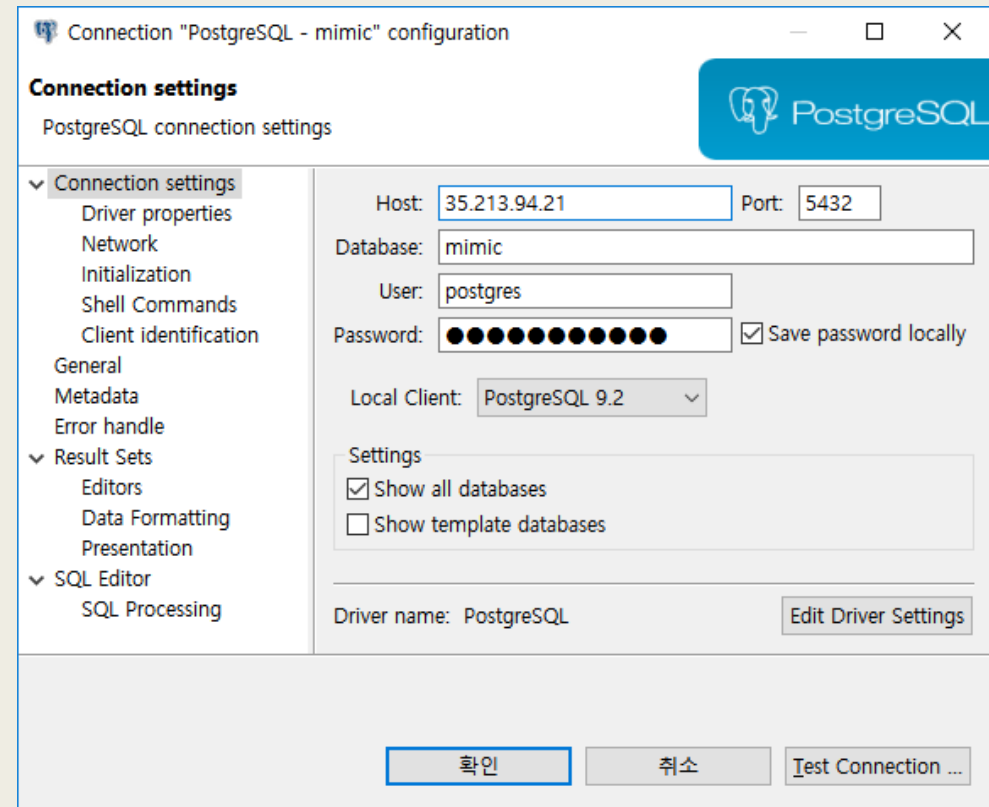
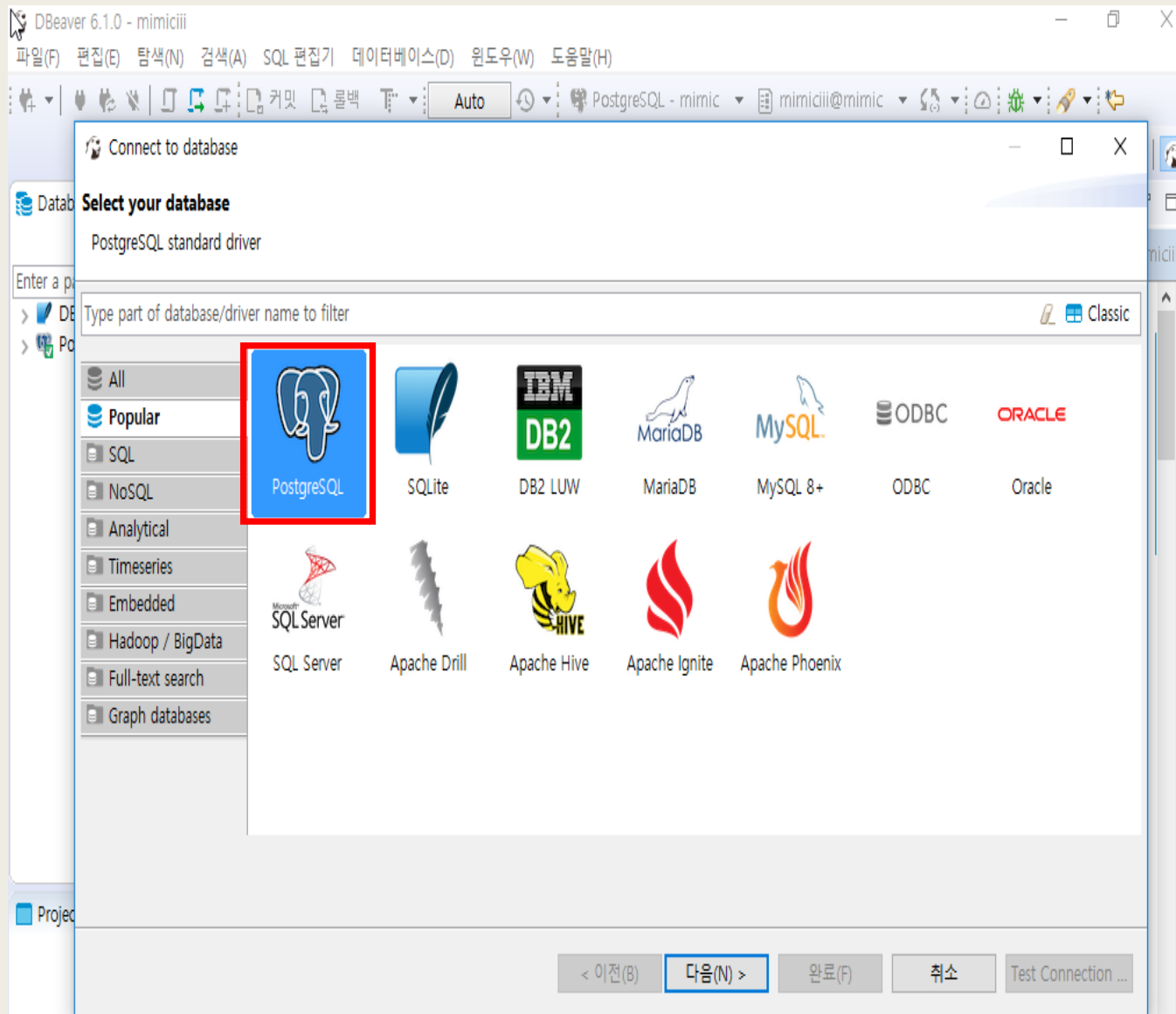
Universal Database Tool

Free multi-platform database tool for developers, SQL programmers, database administrators and analysts. Supports all popular databases: MySQL, PostgreSQL, MariaDB, SQLite, Oracle, DB2, SQL Server, Sybase, MS Access, Teradata, Firebird, Derby, etc.

ID	Address	City	State	Country	Value	MetaData
13	De 7 Blois D	Brescia	DE	Italy	75	
14	8210 111 87 Ave	Edmonton	AB	Canada	116	
15	700 W Pender Street	Vancouver	BC	Canada	98	
16	1800 Amphitheatre Parkway	Mountain View	CA	USA	94	
17	1 Microsoft Way	Redmond	WA	USA	93	
18	827 Broadway	New York	NY	USA	10	
19	1 Infinite Loop	Quetzima	CA	USA	99	
20	141 Del Medio Avenue	Mountain View	CA	USA	94	
21	801 W 4th Street	Bonn	NN	USA	99	
22	120 S Orange Ave	Orlando	FL	USA	32	
23	Tauchenstrasse 8	Berlin		Germany	10	
24	89 Salem Street	Boston	MA	USA	21	
25	182 E Superior Street	Chicago	IL	USA	60	
26	219 N. Frances Street	Madison	WI	USA	53	
27	2215 W Berry Street	Fort Worth	TX	USA	76	
28	1033 N Park Ave	Tucson	AZ	USA	85	
29	302 S 700 E	Salt Lake City	UT	USA	84	
30	796 Dundas Street West	Toronto	ON	Canada	4M	
31	230 Egin Street	Ottawa	ON	Canada	K2	
32	1944 Chain Lake Drive	Halifax	NS	Canada	B3	
33	698 Osborna Street	Winnipeg	MB	Canada	R3	
34	5112 48 Street	Yellowknife	NT	Canada	X1	

Download

3. 데이터 조회-도구



3. 데이터 조회-도구

DBeaver 6.1.0 - <PostgreSQL - mimic> Script-1

파일(F) 편집(E) 탐색(N) 검색(A) SQL 편집기 데이터베이스(D) 윈도우(W) 도움말(H)

Auto PostgreSQL - mimic mimicii@mimic 빠른 액세스

Database Nav... 프로젝트

Enter a part of table name here

- DBeaver Sample Database (SQLite)
- PostgreSQL - mimic
 - mimic
 - Schemas
 - mimicii
 - Tables
 - admissions
 - callout
 - caregivers
 - charevents
 - charevents_1
 - charevents_10
 - charevents_11
 - charevents_12
 - charevents_13
 - charevents_14
 - charevents_15
 - charevents_16
 - charevents_17

Project - General

<PostgreSQL - mimic> Script-1

```
SELECT
    row_id, subject_id, hadm_id, admittance, dischtime, deathtime,
    admission_type, admission_location, discharge_location,
    insurance, "language", religion, marital_status, ethnicity,
    edregtime, edouttime, diagnosis, hospital_expire_flag, has_chartevents_data
FROM mimicii.admissions;

select * from mimicii.drgcodes;
select * from mimicii.patients;
```

admissions

SELECT row_id, subject_id, ha | Enter a SQL expression to filter results (use

	123 row_id	123 subject_id	123 hadm_id	admittime	dischtime	deathtime
1	12,258	10,006	142,345	2164-10-23 21:09:00	2164-11-01 17:15:00	
2	12,263	10,011	105,331	2126-08-14 22:32:00	2126-08-28 18:59:00	2126-08-28 1
3	12,265	10,013	165,520	2125-10-04 23:36:00	2125-10-07 15:13:00	2125-10-07 1
4	12,269	10,017	199,207	2149-05-26 17:19:00	2149-06-03 18:42:00	
5	12,270	10,019	177,759	2163-05-14 20:43:00	2163-05-15 12:00:00	2163-05-15 1
6	12,277	10,026	103,770	2195-05-17 07:39:00	2195-05-24 11:45:00	
7	12,278	10,027	199,395	2190-07-13 07:15:00	2190-07-25 14:00:00	

Record 129 129 row(s) fetched - 16ms (+16ms)