

개발환경구축 (ORACLE 11g XE)





ORACLE



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ORACLE

- 미국 오라클(ORACLE)사의 관계형 데이터베이스 관리 시스템
- 현재 유닉스 환경에서 가장 널리 사용되는 관계형 DBMS
- 국제 표준화 기구의 표준 구조화 조회 언어와 PL/SQL을 지원

ORACLE®

DATABASE



ORACLE

ORACLE DBMS EDITION

- 1. Enterprise Edition : 기업용**
 - 가장 강력하고 다양한 기능을 제공
- 2. Standard Edition : 부서용**
 - 부서용 어플리케이션을 개발, 관리하기 위한 DBMS
 - EE는 전체기능 설치가능, SE는 표준기능만 사용이 가능
- 3. Personal Edition : 교육이나 클라이언트 작업용**
 - 데스크탑 컴퓨터용 DBMS로 작은 규모에서 사용
- 4. Lite Edition : 모바일용 데이터베이스**
 - 소형 고성능 모듈 방식의 Java를 사용한 DBMS
- 5. Express Edition : 무료 배포용**
 - 무료버전으로 XE 버전이라고 함





개발환경구축



개발환경 구축

개발환경 구축 순서

1. www.oracle.com 접속
2. Download – Oracle Database 11g Express Edition 다운로드
3. 설치 및 관리자 계정 암호 설정
4. DB 접속 확인 및 SQLplus 실행
5. 관리자 계정 로그인



개발환경 구축

오라클 홈페이지 접속 및 다운로드

The screenshot displays the Oracle Cloud website interface. At the top, there is a search bar with the text "Ask 'What cloud developer tools do you have?'" and a "View Accounts" link. Below the search bar, the website is organized into three main columns of links. The first column, "Generation 2 Cloud Infrastructure", lists various cloud services. The second column, "Cloud Applications", lists enterprise software solutions. The third column, "Our Company", lists corporate information. Below these, there are sections for "On-Premise Infrastructure", "Government Cloud", "Industry Applications", and "On-Premise Applications". A "Product Help" section is also present, with a "Downloads" link highlighted by a red box. At the bottom right, a "Download the guide" button is visible. The background features a dark, abstract design with a city skyline silhouette at the very bottom.

Oracle Cloud

Ask "What cloud developer tools do you have?"

View Accounts

Try Oracle Cloud Free Tier

Generation 2 Cloud Infrastructure

- Autonomous Database
- Data Management
- Analytics
- Compute
- Cloud@Customer
- Application Development
- Architecture and Regions
- MarketPlace
- All Cloud Infrastructure

Cloud Applications

- Enterprise Resource Planning
- Human Capital Management
- Supply Chain Management
- Sales
- Service
- Marketing
- Data Cloud
- NetSuite Application Suite
- All Cloud Applications

Our Company

- Careers
- Customer References
- Developer Center
- Investor Relations
- Oracle PartnerNetwork
- News and Events

On-Premise Infrastructure

- Oracle Database
- Java
- Software
- Hardware

Government Cloud

Industry Applications

On-Premise Applications



Product Help

- Downloads**
- Cloud Readiness
- Documentation
- Support | Renewals
- Training
- Community Forums
- Consulting


Download the guide

개발환경 구축


오라클 홈페이지 접속 및 다운로드



Ask "Where do I download Java Runtime Environment?"

 View Accounts

Try Oracle Cloud Free Tier


 Free Trial: Oracle Cloud—Get up to 3,500 free hours.


Try Oracle Cloud Free Tier


FAQ: Oracle Cloud Free Tier


Developer Downloads


All software downloads are free, and most come with a [Developer License](#) that allows you to use full versions of the products at no charge while developing and prototyping your applications, or for strictly self-educational purposes. (Unless otherwise specified, our technical support organization will not provide technical support, phone support, or updates to you for the programs licensed under this agreement.) You can buy products with full-use licenses at any time from the online [Store](#) or from your [sales representative](#).


 Database


 Middleware


 Applications

 IT Infrastructure

 Java

 Developer Tools

 Drivers and Utilities

 Open Source

Database

Database 19c Enterprise/Standard Editions

Database 18c Enterprise/Standard Editions

Database 12c Enterprise/Standard Editions

Database 11g Enterprise/Standard Editions

Database 18c Express Edition

Audit Vault and Database Firewall

Berkeley DB

Big Data Connectors

Grid Infrastructure

Instant Client

MySQL

NoSQL Database

Oracle Blockchain Platform Enterprise Edition

Rdb Products




R Distribution











Secure Backup



개발환경 구축

오라클 홈페이지 접속 및 다운로드

[View Accounts](#)[Try Oracle Cloud Free Tier](#)

Solaris (SPARC) (64-bit)	 File 1 ,  File 2 (2GB)	See All
Solaris (x86-64)	 File 1 ,  File 2 (2GB)	See All
HP-UX Itanium	 File 1 ,  File 2 (2GB)	See All
HP-UX PA-RISC (64-bit)	 File 1 ,  File 2 (2GB)	See All
AIX (PPC64)	 File 1 ,  File 2 (2GB)	See All

- Make sure to download and unzip both files to the same directory.
- See All, page contains **unzip instructions** plus Database Client, Gateways, Grid Infrastructure, more

Oracle Database Express Edition

Oracle Database 18c Express Edition

Oracle Database 11g Release 2 Express Edition for Windows 64

Oracle Database 11g Release 2 Express Edition for Linux x86 and Windows

Software Delivery Cloud

Oracle also provides all supported database release software for all platforms on the Oracle Software Delivery Cloud: <https://edelivery.oracle.com>



개발환경 구축

설치 및 암호 설정

Oracle Database 11g Express Edition - Install Wizard

Welcome to the InstallShield Wizard for Oracle Database 11g Express Edition

The InstallShield® Wizard will install Oracle Database 11g Express Edition on your computer. To continue, click Next.

ORACLE®
DATABASE
EXPRESS EDITION

Back

Next

Cancel

Oracle Database 11g Express Edition - Install Wizard

License Agreement

Please read the following license agreement carefully.

ORACLE®
DATABASE
EXPRESS EDITION

Oracle Technology Network Developer License Terms for Oracle Database Express Edition

Export Controls

Export laws and regulations of the United States and any other relevant local export laws and regulations apply to the programs. You agree that such export control laws govern your use of the Program (including technical data) and any services deliverables provided under this agreement, and you agree

☒ I accept the terms in the license agreement

☐ I do not accept the terms in the license agreement

Print

InstallShield

Back

Next

Cancel

개발환경 구축

설치 및 암호 설정

Oracle Database 11g Express Edition - Install Wizard

Choose Destination Location

Select folder where setup will install files.



Setup will install Oracle Database 11g Express Edition in the following folder.

To install to this folder, click Next. To install to a different folder, click Browse and select another folder.

<input checked="" type="checkbox"/> Oracle Database 11g Express Edition	631124 K
---	----------

Destination Folder

C:\oraclexe\

Browse...

Space Required on C: 631124 K

Space Available on C: 173835572 K

InstallShield

Back

Next

Cancel

Oracle Database 11g Express Edition - Install Wizard

Specify Database Passwords



Enter and confirm passwords for the database. This password will be used for both the SYS and the SYSTEM database accounts.

Enter Password

Confirm Password

InstallShield

Back

Next

Cancel

개발환경 구축

설치 및 암호 설정

Oracle Database 11g Express Edition - Install Wizard

Summary

Review settings before proceeding with the installation.



Current Installation Settings:

Destination Folder: C:\oraclexe\
Oracle Home: C:\oraclexe\app\oracle\product\11.2.0\server\
Oracle Base: C:\oraclexe\
Port for 'Oracle Database Listener': 1521
Port for 'Oracle Services for Microsoft Transaction Server': 2030
Port for 'Oracle HTTP Listener': 8080

InstallShield

Back

Install

Cancel

Oracle Database 11g Express Edition - Install Wizard

InstallShield Wizard Complete

Setup has finished installing Oracle Database 11g Express Edition on your computer.



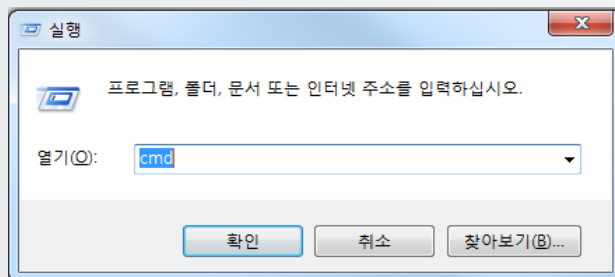
Back

Finish

Cancel

개발환경 구축

SQLPlus를 이용한 DB 접속



```
C:\Users>sqlplus
```

```
SQL*Plus: Release 11.2.0.2.0 Production on 토 2월 22 23:09:31 2020
```

```
Copyright (c) 1982, 2014, Oracle. All rights reserved.
```

개발환경 구축

관리자 계정 로그인

```
C:\WUsers>sqlplus

SQL*Plus: Release 11.2.0.2.0 Production on 토 2월 22 23:09:31 2020

Copyright (c) 1982, 2014, Oracle. All rights reserved.

Enter user-name: system
Enter password:

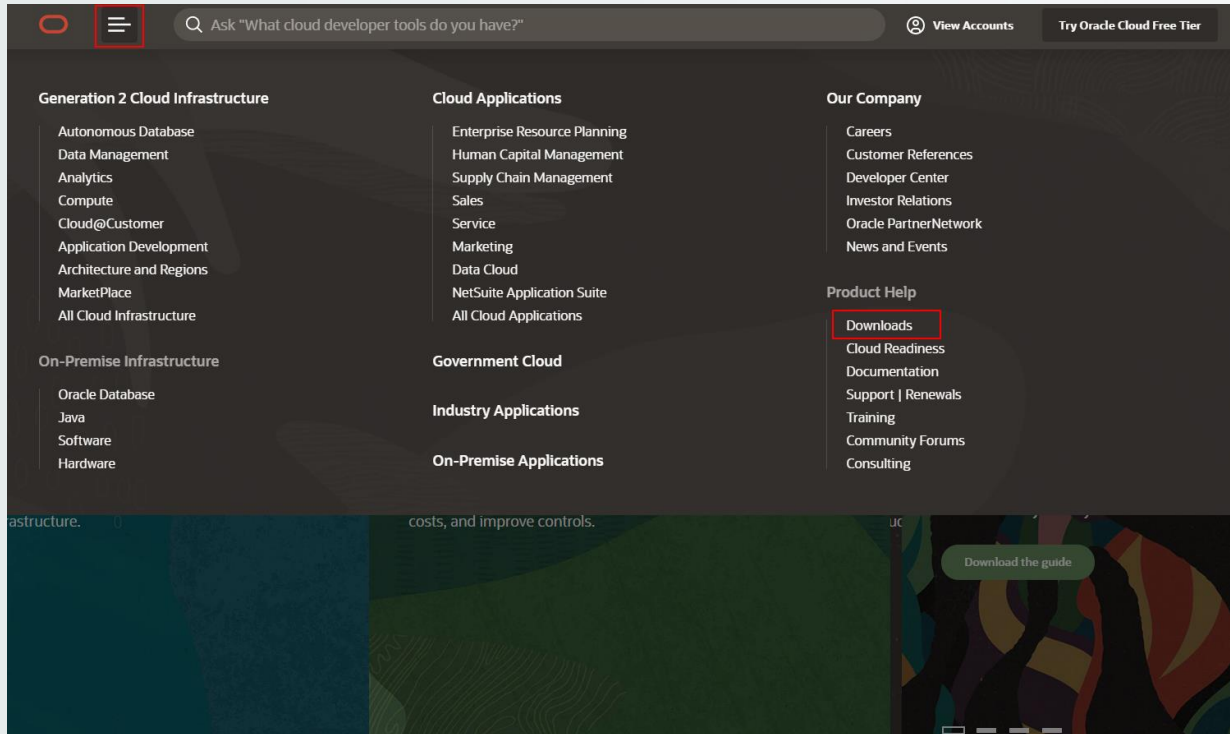
Connected to:
Oracle Database 11g Express Edition Release 11.2.0.2.0 - 64bit Production

SQL> show user;
USER is "SYSTEM"
SQL>
```





개발환경 구축

SQL Developer 설치




개발환경 구축


SQL Developer 설치



Ask "Does Oracle offer free cloud trials?"

 View Accounts

Try Oracle Cloud Free Tier


 Free Trial: Oracle Cloud—Get up to 3,500 free hours.


Try Oracle Cloud Free Tier


FAQ: Oracle Cloud Free Tier


Developer Downloads


All software downloads are free, and most come with a [Developer License](#) that allows you to use full versions of the products at no charge while developing and prototyping your applications, or for strictly self-educational purposes. (Unless otherwise specified, our technical support organization will not provide technical support, phone support, or updates to you for the programs licensed under this agreement.) You can buy products with full-use licenses at any time from the online [Store](#) or from your [sales representative](#).


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개발환경 구축

SQL Developer 설치

Developer Tools

ADF Faces

Application Express (APEX)

BI Publisher

BPEL Process Manager

Developer Studio

Developer Suite 10g

Developer Tools for Visual Studio

Enterprise Pack for Eclipse

Forms & Reports Services

JavaScript Extension Toolkit

JDeveloper & ADF

NetBeans IDE

Oracle REST Data Services (ORDS)

SOA Suite

Spatial Studio

SQL Developer

SQL Developer Data Modeler

StorageTek

Team Productivity Center

TopLink

VM: Pre-Built VirtualBox VMs

VM: Oracle VM Templates

Warehouse Builder

WebRTC Session Controller Client SDK

Drivers and Utilities

Cluster Verification Utility

Database Migration Assistant for Unicode

Enterprise Manager Grid Control Plugins

Failsafe

Help Technologies

Oracle Communications Tunneled Session Controller SDK

Oracle Cloud Infrastructure File Storage Service Client Utility

Oracle Data Access Components for Windows (ODP.NET, ODBC, OLE DB, Dev Tools for Visual Studio)



개발환경 구축

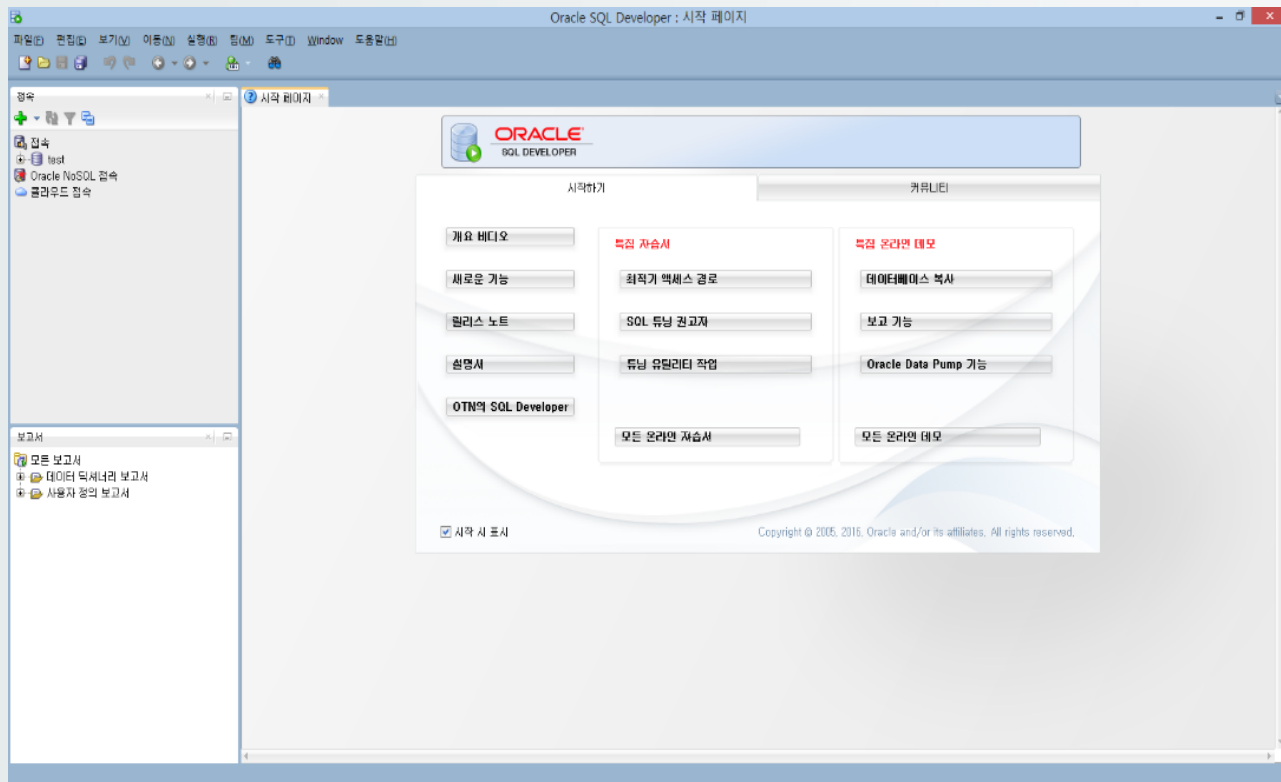
SQL Developer 설치

압축 해제 후 실행파일 클릭(설치X)



개발환경 구축

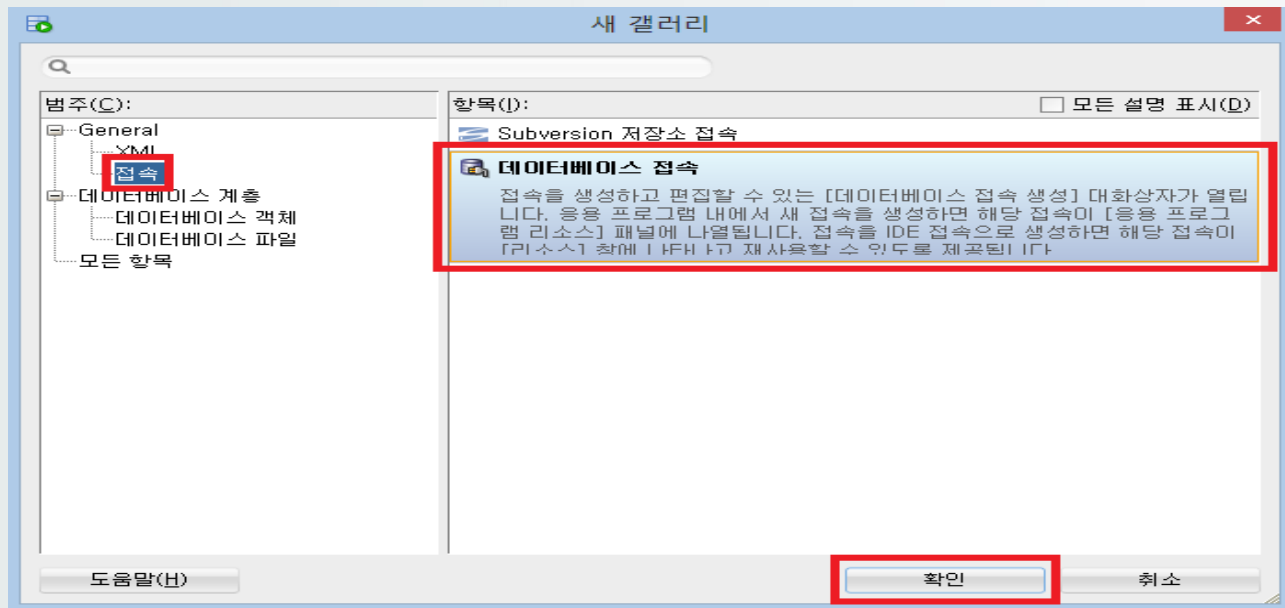
SQL Developer 실행



개발환경 구축

접속 설정

파일 – 새로 만들기 – General – 접속 – 데이터베이스 접속



개발환경 구축

접속 설정

새로 만들기/데이터베이스 접속 선택

접속 이름	접속 세부 정보
	<p>접속 이름(N) <input type="text" value="web"/></p> <p>사용자 이름(U) <input type="text" value="sys as sysdba"/></p> <p>비밀번호(P) <input type="password" value="*****"/></p> <p><input type="checkbox"/> 비밀번호 저장(Y) <input checked="" type="checkbox"/> 접속 색상</p> <p>Oracle</p> <p>접속 유형(Y) 기본 롤(L) 기본값</p> <p>호스트 이름(A) <input type="text" value="localhost"/></p> <p>포트(R) <input type="text" value="1521"/></p> <p><input checked="" type="radio"/> SID(I) <input type="text" value="xe"/></p> <p><input type="radio"/> 서비스 이름(E) <input type="text"/></p> <p><input type="checkbox"/> OS 인증 <input type="checkbox"/> Kerberos 인증 고급...</p>

상태: 성공

도움말(H) 저장(S) 지우기(C) 테스트(T) 접속(O) 취소

개발환경 구축

SQL Developer 기본 구성

The screenshot displays the Oracle SQL Developer interface for a user named WEB_SCOTT. The interface is divided into three main sections:

- Left Panel (Schema Browser):** Shows the database structure for WEB_SCOTT. A red box highlights the 'EMP' table under the 'DEPT' schema, with the text 'DE 정보' (DE Information) overlaid.
- Center Panel (Worksheet):** Displays a SQL query: `SELECT * FROM EMP;`. The text '질의 작성 워크시트' (Query Writing Worksheet) is overlaid in blue.
- Bottom Panel (Results):** Shows the execution results of the query. The text '질의 결과' (Query Results) is overlaid in orange. The results are displayed in a table with 12 rows and 7 columns.

EMPNO	ENAME	JOB	MGR	HIREDATE	SAL	COMM	DEPTNO
1	7369 SMITH	CLERK	7902	80/12/17	800	(null)	20
2	7499 ALLEN	SALESMAN	7698	81/02/20	1600	300	30
3	7521 WARD	SALESMAN	7698	81/02/22	1250	500	30
4	7566 JONES	MANAGER	7839	81/04/02	2975	(null)	20
5	7654 MARTIN	SALESMAN	7698	81/09/28	1250	1400	30
6	7698 BLAKE	MANAGER	7839	81/05/01	2850	(null)	30
7	7782 CLARK	MANAGER	7839	81/06/09	2450	(null)	10
8	7839 KING	PRESIDENT	(null)	81/11/17	5000	(null)	10
9	7844 TURNER	SALESMAN	7698	81/09/08	1500	0	30
10	7900 JAMES	CLERK	7698	81/12/03	950	(null)	30
11	7902 FORD	ANALYST	7566	81/12/03	3000	(null)	20
12	7934 MILLER	CLERK	7782	82/01/23	1300	(null)	10