



Today's
lecture



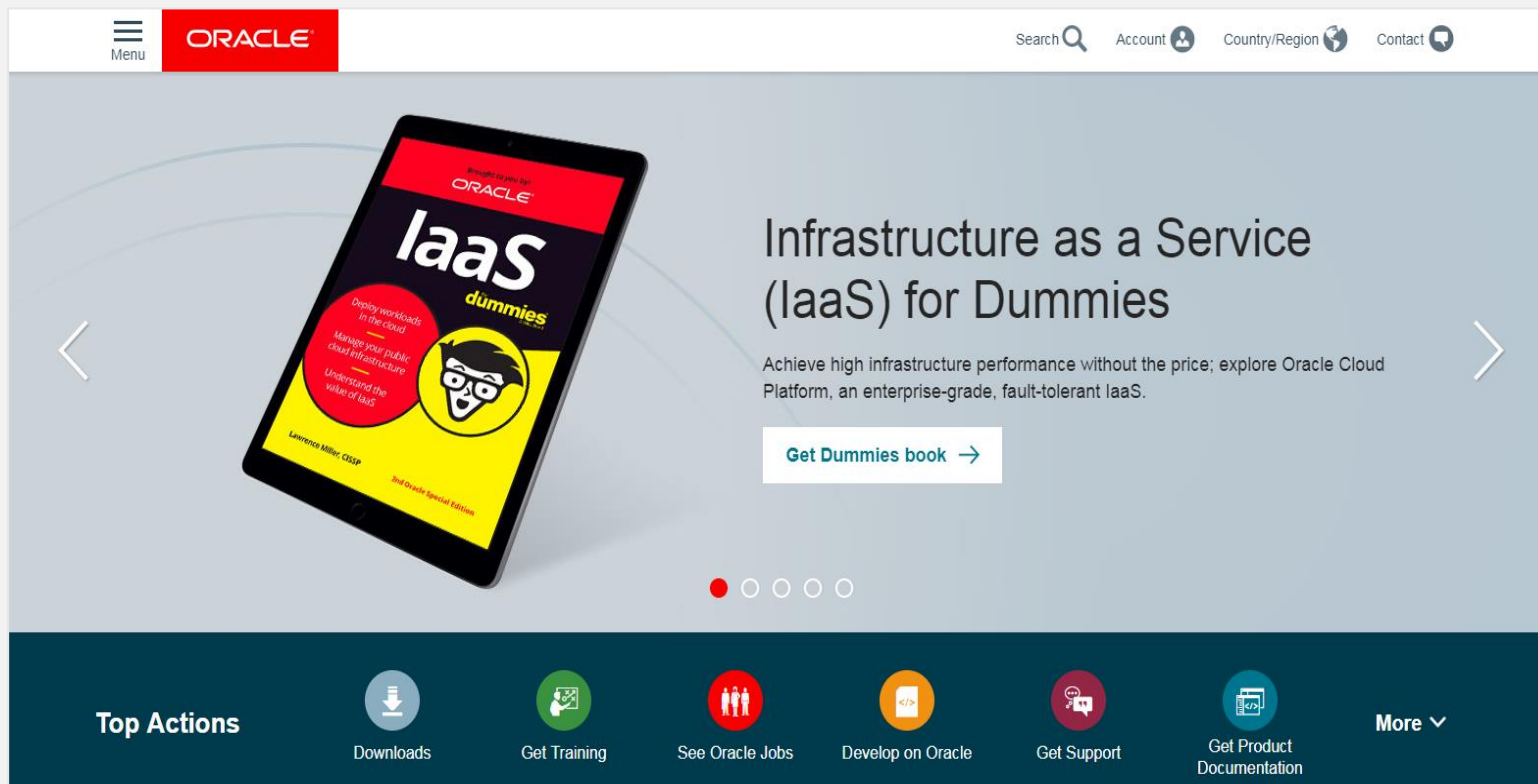
`System.out.print('개발환경구축');`

▶ 개발 환경 구축 순서

1. 오라클 홈페이지(www.oracle.com) 접속
2. Downloads – Oracle Database 11g Express Edition 다운로드
3. 설치 및 관리자 계정 암호 설정
4. DB 접속 확인 및 SQLPlus 실행
5. 관리자 계정 로그인

▶ 개발 환경 구축

✓ Oracle 홈페이지 접속 및 다운로드



The screenshot displays the Oracle website's main banner for 'Infrastructure as a Service (IaaS) for Dummies'. The banner features a tablet on the left showing the book cover, which includes the Oracle logo, the title 'IaaS for Dummies', and a list of topics: 'Deploy workloads in the cloud', 'Manage your public cloud infrastructure', and 'Understand the value of IaaS'. The author is 'Lawrence Miller, CISSP', and it's the '2nd Oracle Special Edition'. To the right of the tablet, the text reads 'Infrastructure as a Service (IaaS) for Dummies' followed by a description: 'Achieve high infrastructure performance without the price; explore Oracle Cloud Platform, an enterprise-grade, fault-tolerant IaaS.' Below this is a button that says 'Get Dummies book →'. The banner has navigation arrows on the sides and a series of five dots at the bottom, with the first dot being red. Below the banner is a dark blue footer section titled 'Top Actions' with icons and links for 'Downloads', 'Get Training', 'See Oracle Jobs', 'Develop on Oracle', 'Get Support', and 'Get Product Documentation', followed by a 'More' link with a dropdown arrow.

Menu ORACLE Search Account Country/Region Contact

Infrastructure as a Service (IaaS) for Dummies

Achieve high infrastructure performance without the price; explore Oracle Cloud Platform, an enterprise-grade, fault-tolerant IaaS.

Get Dummies book →

Top Actions


- Downloads
- Get Training
- See Oracle Jobs
- Develop on Oracle
- Get Support
- Get Product Documentation
- More

▶ 개발 환경 구축

✓ Oracle 홈페이지 접속 및 다운로드

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 18c Enterprise/Standard Editions](#)[→ ILM Assistant](#)[→ Database 12c Enterprise/Standard Editions](#)[→ Instant Client](#)[→ Database 11g Enterprise/Standard Editions](#)[→ MySQL](#)[→ Database 11g Express Edition](#)[→ NoSQL Database](#)[→ Audit Vault and Database Firewall](#)[→ Rdb Products](#)[→ Berkeley DB](#)[→ R Distribution](#)[→ Big Data Connectors](#)[→ Secure Backup](#)[→ Cluster Verification Utility](#)[→ Secure Backup Cloud Module for Amazon S3](#)

▶ 개발 환경 구축

✓ Oracle 홈페이지 접속 및 다운로드

Menu **ORACLE** Search Account Country/Region Contact

Oracle Technology Network / Database / Database Downloads / Downloads

Database Downloads
Database In-Memory
Multitenant
More Key Features
Application Development
Big Data Appliance
Cloud Database Services

Downloads

Oracle Database Software Downloads

You must accept the [OTN License Agreement](#) to download this software.

☒ Accept License Agreement ☐ Decline License Agreement

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](#)

▶ 개발 환경 구축

✓ Oracle 홈페이지 접속 및 다운로드

Menu

ORACLE

Search
Account
Country/Region
Contact

Oracle Technology Network / Database / Database A - Z / Database Express Edition / Downloads

Database Downloads
Database In-Memory
Multitenant
More Key Features
Application Development
Big Data Appliance
Cloud Database Services
Private Database Cloud
Data Warehousing & Big Data
Database Appliance
Exadata Database Machine
High Availability
Manageability
Migrations
Security
Unstructured Data
Upgrades
Windows
Database A - Z
Multilingual Engine

Oracle Database XE
Prior Release Archive

Oracle Database Express Edition (XE) Release 11.2.0.2.0 (11gR2).

You must accept the [OTN License Agreement](#) for Oracle Database 11gR2 XE to download this software.
☒ **Accept** License Agreement | ☐ **Decline** License Agreement

> Oracle Database 11gR2 Express Edition for Windows x64 [Download](#)
{Note: Unzip the download and run the DISK1/setup.exe}

> Oracle Database 11gR2 Express Edition for Windows x32 [Download](#)
{Note: Unzip the download and run the DISK1/setup.exe}

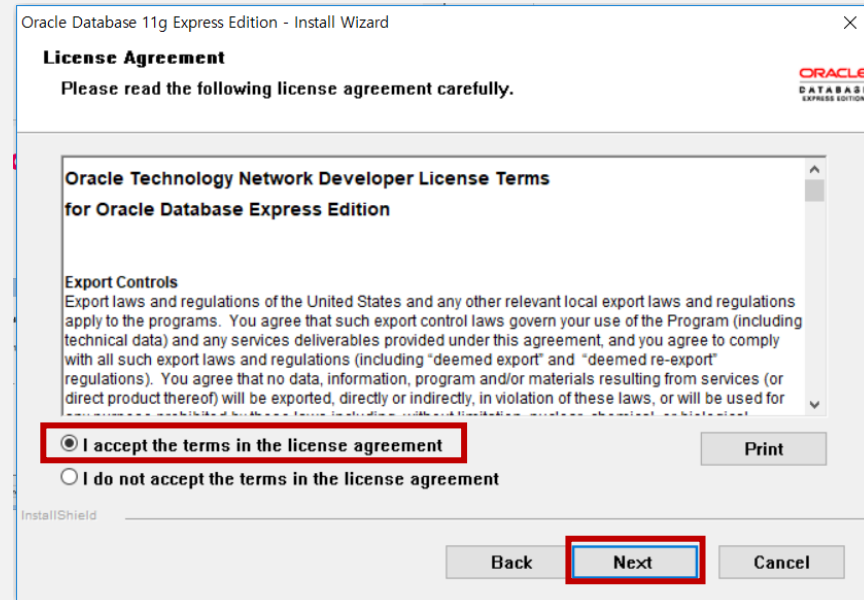
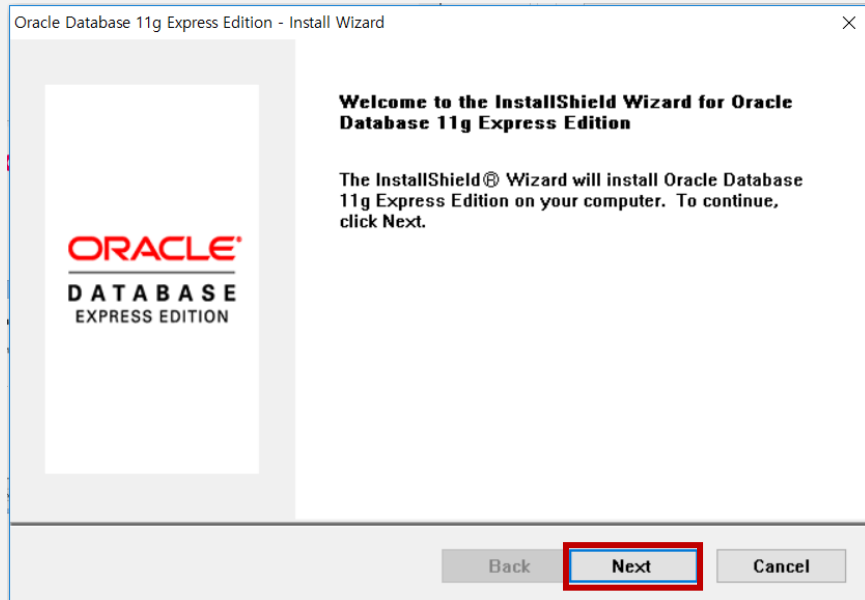
> Oracle Database 11gR2 Express Edition for Linux x64 [Download](#)
{Note: Unzip the download and the RPM file can be installed as normal}

Live SQL
Now Running on
Oracle Database 18c
[Start Coding Now >](#)

Try Database in the Cloud for Free
See what you can accomplish with US\$300 in free credits.
[Free cloud trial >](#)

▶ 개발 환경 구축

✓ 설치 및 암호 설정



▶ 개발 환경 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.

☒ Oracle Database 11g Express Edition 631124 K

Destination Folder
C:\Oracle\exe# Browse...

Space Required on C: 631124 K
Space Available on C: 193406312 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

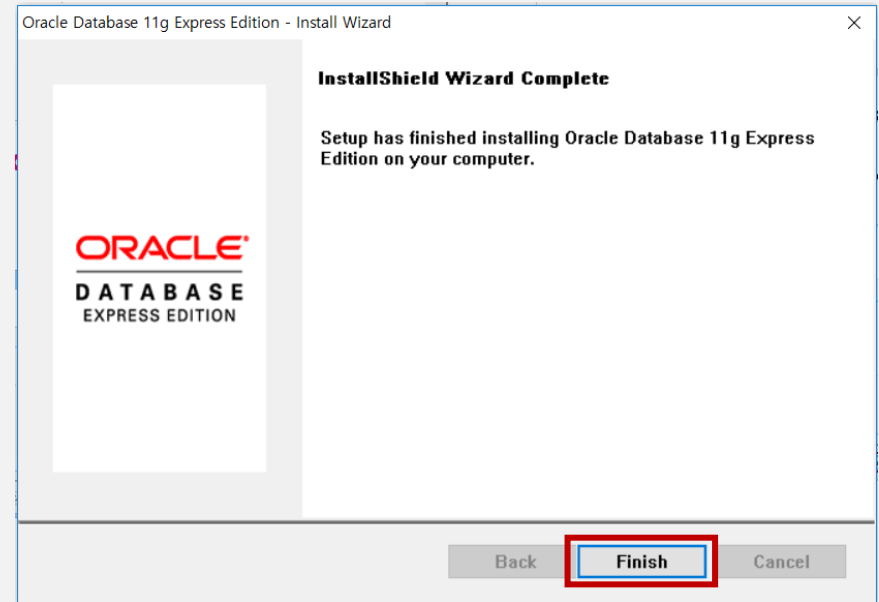
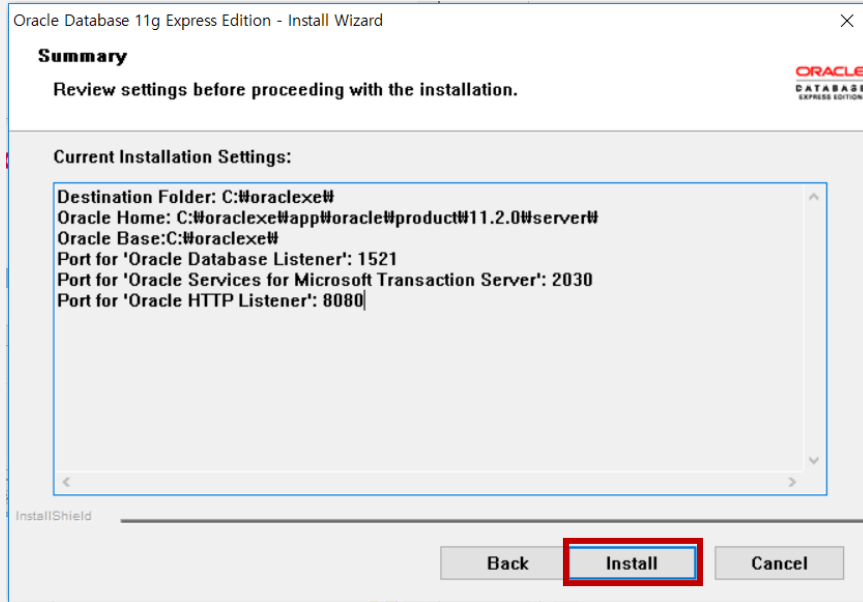
Confirm Password

InstallShield

Back **Next** Cancel

▶ 개발 환경 구축

✓ 설치 및 암호 설정



▶ 개발 환경 구축

✓ 설치 및 암호 설정

```
C:\> 명령 프롬프트 - sqlplus
Microsoft Windows [Version 10.0.17134.706]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\Users\ParkSinwoo>sqlplus

SQL*Plus: Release 11.2.0.2.0 Production on 목 5월 2 15:08:48 2019
Copyright (c) 1982, 2014, Oracle. All rights reserved.

Enter user-name:
```

▶ SQL Developer 설치 순서

1. 오라클 홈페이지(www.oracle.com) 접속
2. Download - SQL Developer 다운로드
3. 압축 해제 후 바로 실행

▶ SQL Developer 설치

✓ Oracle 홈페이지 접속 및 다운로드

The screenshot shows the Oracle Cloud Infrastructure (IaaS) for Dummies landing page. The header includes the Oracle logo, a menu icon, and navigation links for Search, Account, Country/Region, and Contact. The main content area features a large image of a tablet displaying the 'IaaS for Dummies' book cover. To the right of the tablet, the text reads 'Infrastructure as a Service (IaaS) for Dummies' and 'Achieve high infrastructure performance without the price; explore Oracle Cloud Platform, an enterprise-grade, fault-tolerant IaaS.' Below this text is a button labeled 'Get Dummies book →'. At the bottom, there is a 'Top Actions' section with icons and links for Downloads, Get Training, See Oracle Jobs, Develop on Oracle, Get Support, and Get Product Documentation, followed by a 'More' dropdown menu.

Menu ORACLE

Search Account Country/Region Contact

Infrastructure as a Service (IaaS) for Dummies

Achieve high infrastructure performance without the price; explore Oracle Cloud Platform, an enterprise-grade, fault-tolerant IaaS.

Get Dummies book →

Top Actions

- Downloads
- Get Training
- See Oracle Jobs
- Develop on Oracle
- Get Support
- Get Product Documentation
- More

▶ SQL Developer 설치


✓ Oracle 홈페이지 접속 및 다운로드




Developer Tools

- ADF Faces
- Application Express Standalone
- BI Publisher
- BPEL Process Manager
- Developer Suite 10g
- Developer Tools for Visual Studio
- Enterprise Pack for Eclipse
- Forms & Reports Services
- JDeveloper & ADF
- NetBeans IDE
- SOA Suite
- Developer 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

▶ SQL Developer 설치

✓ Oracle 홈페이지 접속 및 다운로드

 SQL Developer Downloads



License Agreement

Thank you for accepting the OTN License. You may download this software.

You must accept the OTN License Agreement to download this software. [OTN License Agreement for SQL Developer](#)


SQL Developer 19.1

Version 19.1.0.094.2042 April 10, 2019

[Release Notes](#), [Bugs Fixed](#), [Documentation](#)


Windows 64-bit with JDK 8 included

MD5: a4063569e190e57512844d71cc72838a
SHA1: 9f6c49b051d3386305b069127f20eeda72364de7
[Installation Notes](#)

435 MB [Download](#) 

Windows 32-bit/64-bit

MD5: 47eac55a273b3e78c6463cedc4885ec9
SHA1: 2e8778b1110a15d6447afddfe48efc1a885e1410
[Installation Notes](#), [JDK 8 required](#)

361 MB [Download](#) 

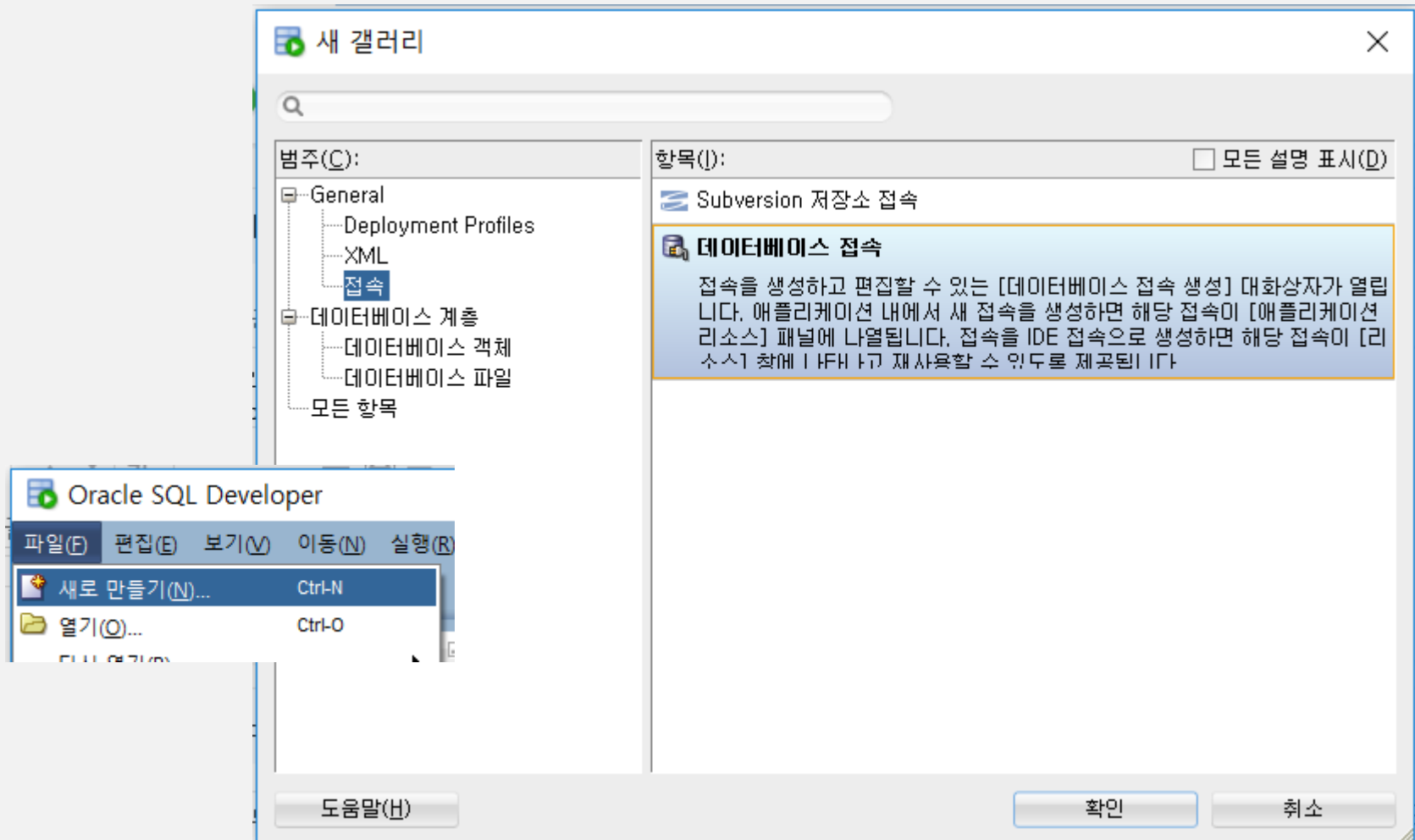
▶ SQL Developer 실행

✓ 메인



▶ SQL Developer 실행

✓ 접속 설정



▶ SQL Developer 실행

✓ 접속 설정

새로 만들기/데이터베이스 접속 선택

접속 이름 접속 세부정보

Name SYSTEM

데이터베이스 유형 Oracle

사용자 정보 프록시 사용자

인증 유형 기본값

사용자 이름(U) sys as sysdba 롬(L) 기본값

비밀번호(P)

☐ 비밀번호 저장(V)

접속 유형(Y) 기본

세부정보 고급

호스트 이름(A) localhost

포트(B) 1521

☒ SID(I) xe

☐ 서비스 이름(E)

상태: 성공

도움말(H) 저장(S) 지우기(C) 테스트(T) 접속(O) 취소

▶ SQL Developer 실행

✓ 접속 성공

Oracle SQL Developer : WEB_SCOTT

파일(F) 편집(E) 보기(V) 이동(N) 실행(R) 소스 팀(M) 도구(T) Window 도움말(H)

접속 WEB_SCOTT

테이블(필터링됨)

BONUS

DEPT

EMP

EMPNO

ENAME

JOB

MGR

HIREDATE

SAL

COMM

DEPTNO

GRANT

부

부 편집

이벤트

DB 정보

질의 작성기

SELECT * FROM EMP;

질의 결과

SOL | 인출된 모든 행: 12(0.007초)

	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

질의 결과

11월 19일 | 삽입 | 수정됨 | Windows: CR

▶ 계정 생성 및 접속

✓ 새로운 계정 만들기

CREATE USER KH IDENTIFIED BY KH;
GRANT RESOURCE, CONNECT TO KH;

✓ 생성한 계정 접속

시스템 계정, 로그인과 동일한 방식으로 생성한 계정에 로그인

✓ 실습 스크립트 실행

실습 스크립트 내용을 복사해 질의 작성 워크시트에 붙여 넣고 실행

SELECT * FROM EMPLOYEE;

	EMP_ID	EMP_NAME	EMP_NO	EMAIL	PHONE	HIRE_DATE	JOB_ID	SALARY	BONUS_PCT	MARRIAGE	MGR_ID	DEPT_ID
1	100	한선기	621133-1483658	sg_ahn@kkk.com	0199949999	90/04/01	J1	9000000	0.2	Y	(null)	90
2	101	강종훈	621136-1006405	jh_park@kkk.com	0193334433	04/04/30	J2	5500000	(null)	Y	100	90
3	102	최만식	861011-1940062	ms_choi@kkk.com	0198879908	95/12/30	J2	3600000	(null)	Y	101	90
4	103	정도연	631127-2519077	sy_kang@kkk.com	0196654436	97/06/03	J4	2600000	(null)	Y	104	60
5	104	안석규	651031-1962810	sg_han@kkk.com	0192347654	98/07/01	J3	3500000	0.25	Y	100	60
6	107	조재형	721128-1732822	jh_jo@kkk.com	0193325548	98/11/23	J3	3800000	(null)	Y	104	60
7	124	정지현	641231-2269080	jih_jeon@kkk.com	01922976129	04/07/15	J7	1500000	(null)	N	141	50
8	141	김예수	651122-2592930	hs_kim@kkk.com	0194087600	01/03/20	J5	2100000	0.1	Y	100	50
9	143	나승원	871024-1945881	sw_cha@kkk.com	0197243979	01/03/20	J5	2300000	(null)	Y	141	50
10	144	김순미	741122-2515789	sm_kim@kkk.com	0192213306	99/10/20	J3	3400000	0.1	Y	141	50
11	149	성해교	640524-2148639	hg_song@kkk.com	01992882295	03/08/16	J7	1900000	(null)	N	141	50
12	174	전우성	821121-1660412	ws_jeong@kkk.com	0193243388	02/07/14	J6	2090000	(null)	Y	100	80
13	176	엄정하	791217-2230420	jh_um@kkk.com	0194769665	04/07/21	J6	2420000	0.2	Y	174	80
14	178	심하균	611121-1673370	hk_shin@kkk.com	0197122111	04/09/30	(null)	2300000	0.3	Y	(null)	(null)
15	200	고승우	840217-1776881	sw_jo@kkk.com	0193475512	03/04/11	J7	1500000	(null)	Y	100	10
16	201	박하일	891225-1069101	hi_park@kkk.com	01951564413	04/11/10	J5	2600000	(null)	Y	(null)	50
17	202	권상후	790331-1662986	sw_kwon@kkk.com	0196640090	01/05/20	J6	3410000	0.2	Y	200	10
18	205	임영애	790833-2105839	jangum_lee@kkk.com	0191132477	00/01/31	J6	2640000	0.15	N	200	10
19	206	엄정하	860122-2785746	jh_yeum@kkk.com	01997546623	03/09/17	J7	1500000	(null)	Y	(null)	(null)
20	207	김술오	640226-1358242	so_kim@kkk.com	(null)	96/10/01	J4	2500000	(null)	Y	(null)	20
21	208	이종기	790411-1452247	jk_lee@kkk.com	(null)	04/10/01	J4	2500000	(null)	Y	(null)	20
22	210	감우섭	700813-1766819	manofking@kkk.com	(null)	05/07/31	J4	2500000	(null)	Y	(null)	20