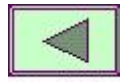


## 제 12 회

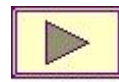
### 네트워크 상의 데이터베이스 이용



강의내용



이전 단원



다음 단원

.....

.....

#### 1. \_\_\_\_\_ / \_\_\_\_\_

- 1.1 \_\_\_\_\_ / \_\_\_\_\_
- 1.2 \_\_\_\_\_ / \_\_\_\_\_
- 1.3 \_\_\_\_\_ / \_\_\_\_\_
- 1.4 \_\_\_\_\_ / \_\_\_\_\_
- 1.5 \_\_\_\_\_

#### 2. Web \_\_\_\_\_

- 2.1 \_\_\_\_\_
- 2.2 \_\_\_\_\_

• \_\_\_\_\_ / \_\_\_\_\_

• \_\_\_\_\_ / \_\_\_\_\_

• \_\_\_\_\_ / \_\_\_\_\_

• \_\_\_\_\_

• \_\_\_\_\_

1.

/

/

/

(/)

(middlewqre)

(Applicaion Programming Interface)

API

/

/

가

(

)

가

DBMS

1.1

/

/

가

가

가

가

/

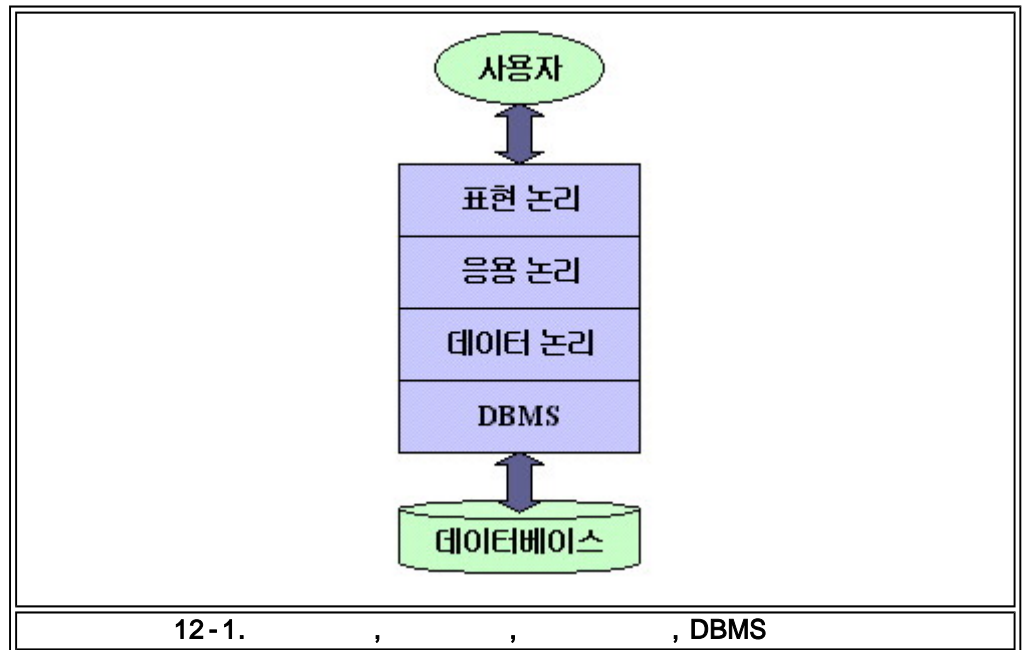
가

API

/

[illegible]

12-1 . , DBMS



12-1 가

1.3

/

/

(IPC:Inter Process Communication)

/

가

- (Message Passing)

가

(synchronized communication)

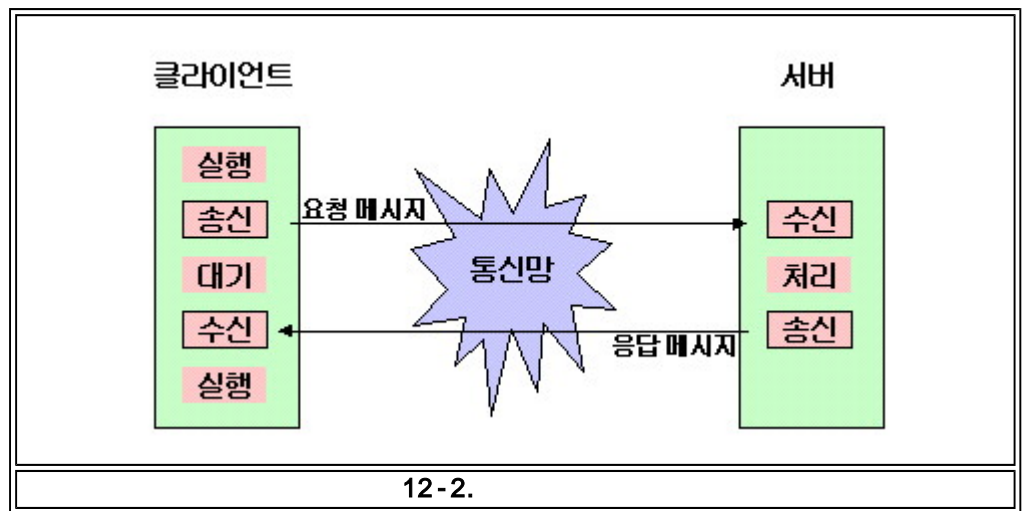
.

,

가

가

12-2

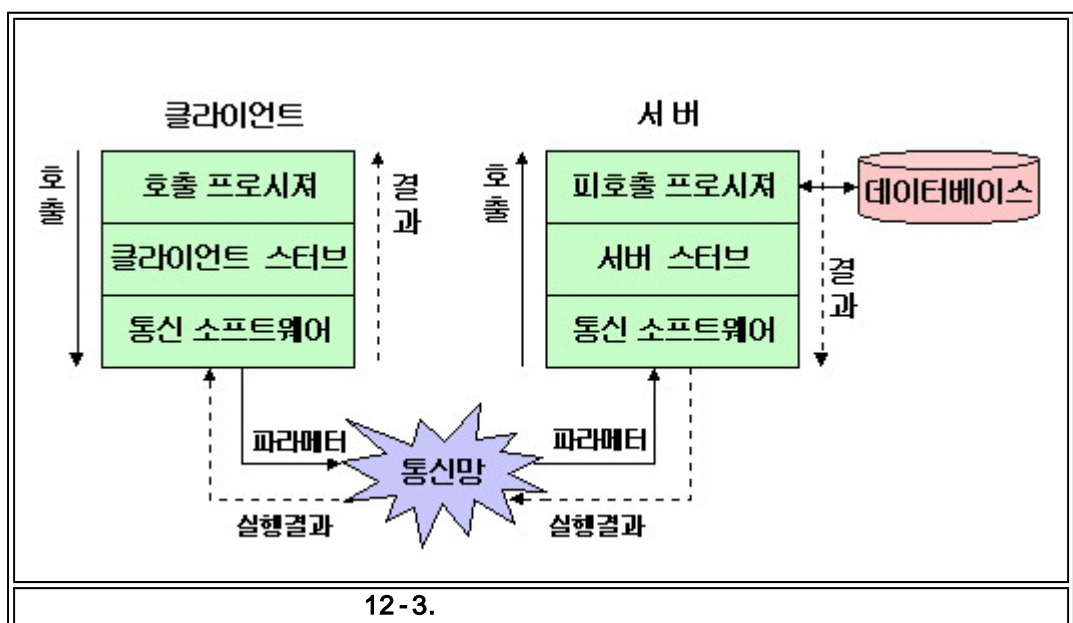


- (RPC)

가 가

(stub)

가 , 가  
가 12-3



- (Message Queuing)

(synchronized communication)

가

(asynchronous

communication)

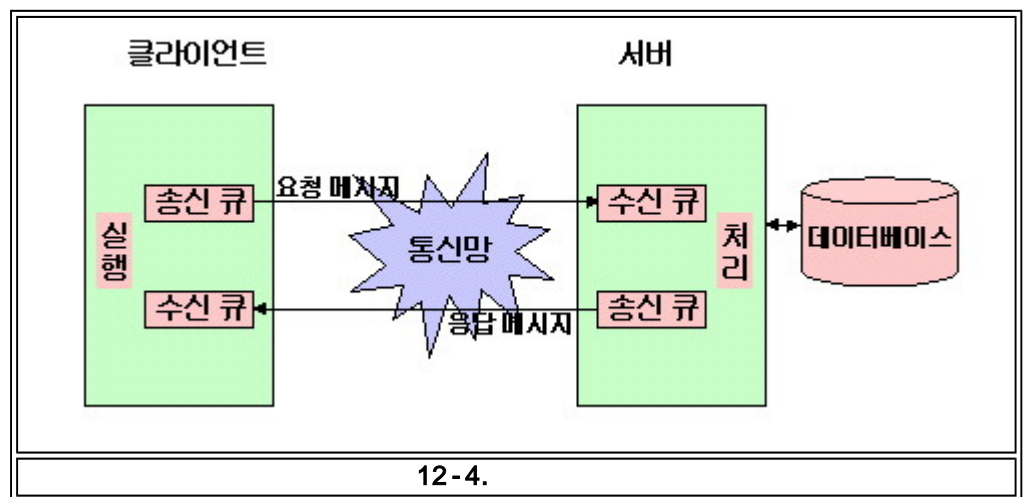
send receive

API

RPC

12-4

가



1.4

/

( )

/

- 2 (2-tier model)

2

DBMS가 back-end

front-end

/

2

SQL

가

SQL

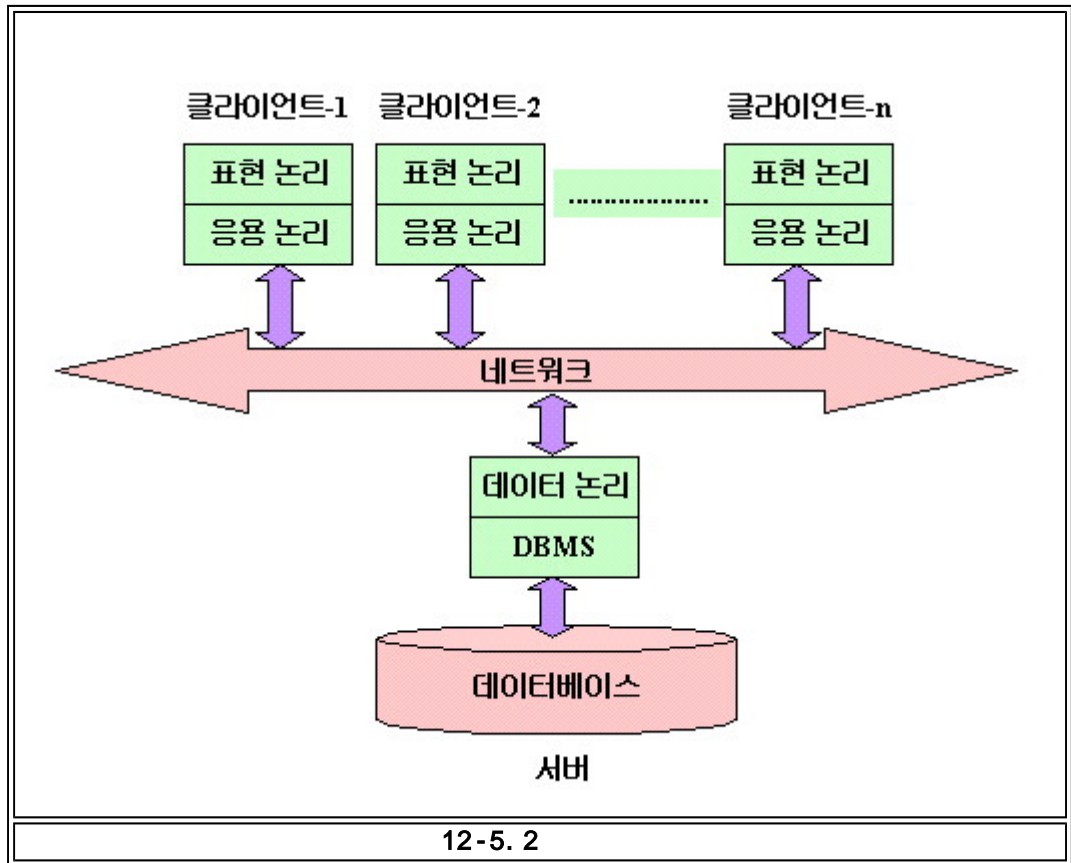
가

2  
가

가

12-5  
DBMS

2



• 3 (3-tier model)

3

front-end  
DBMS back-end

/

가

가

가

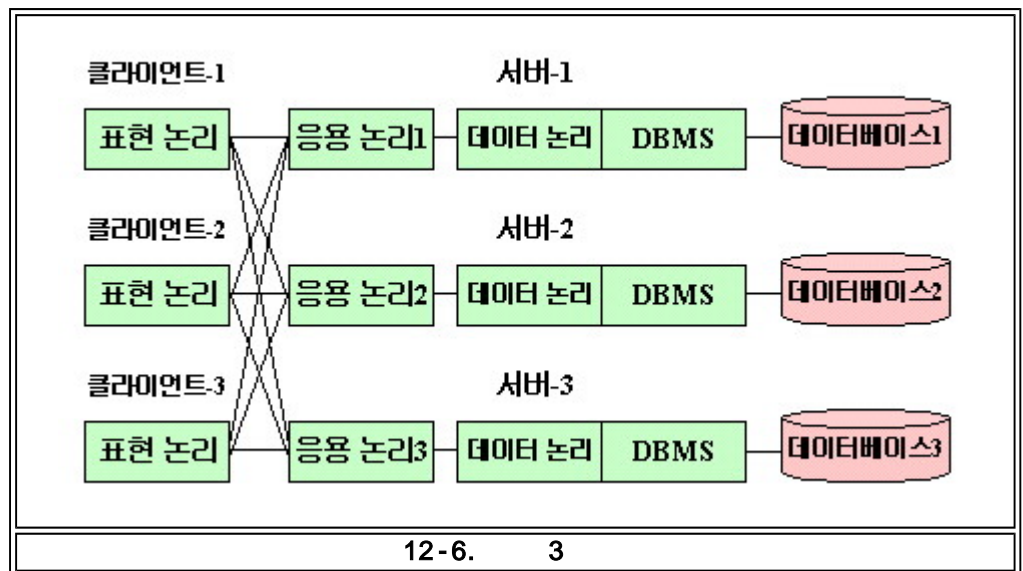
3

3

3

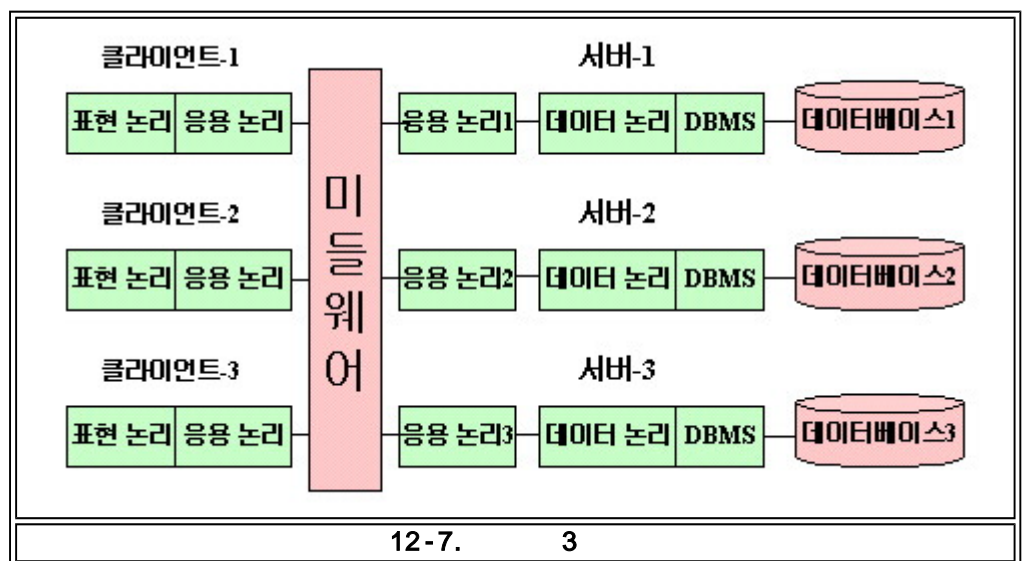
3

12-6



3  
가

12-7



DBMS      2

가      가      가

3

2      가      DBMS      3

(DBMS가      DBMS      )

3



- 가
- ( DBMS)

2

- 가

## 1.5

ODBC

▪ ,

가

가

DBMS

DBMS

Connectivity)가 . MS ODBC(Open Database

ODBC  
ODBC

IBM

Window 98

Window NT

ODBC    DBMS

(driver)

Informix

Informaix ODBC 가

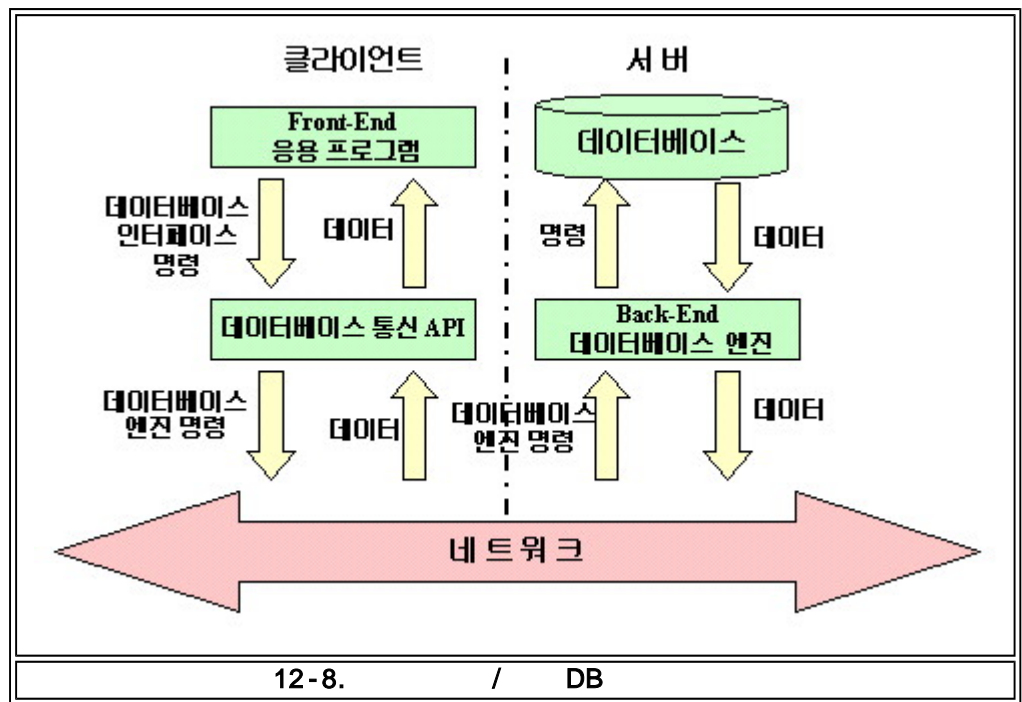
```

      ODBC
      ODBC
ODBC.DLL
      DLL
      ODBC

```

$$\begin{array}{r} / \\ / \\ / \\ 12-8 \end{array}$$

API



API 12-8

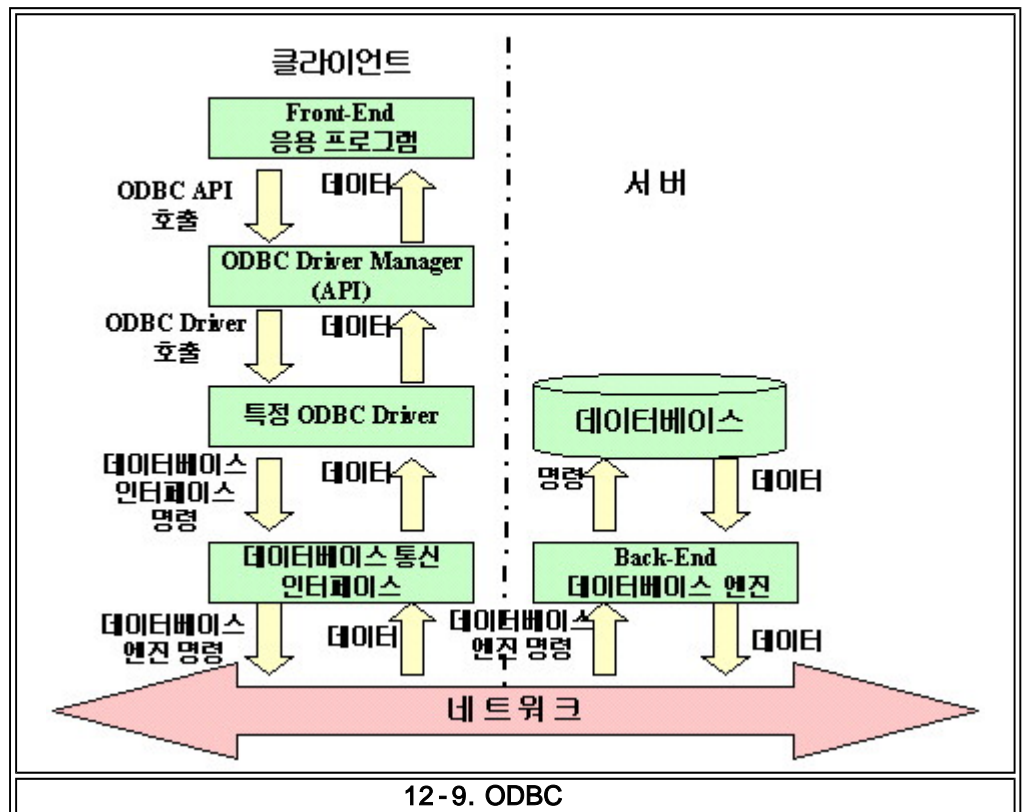
API

API

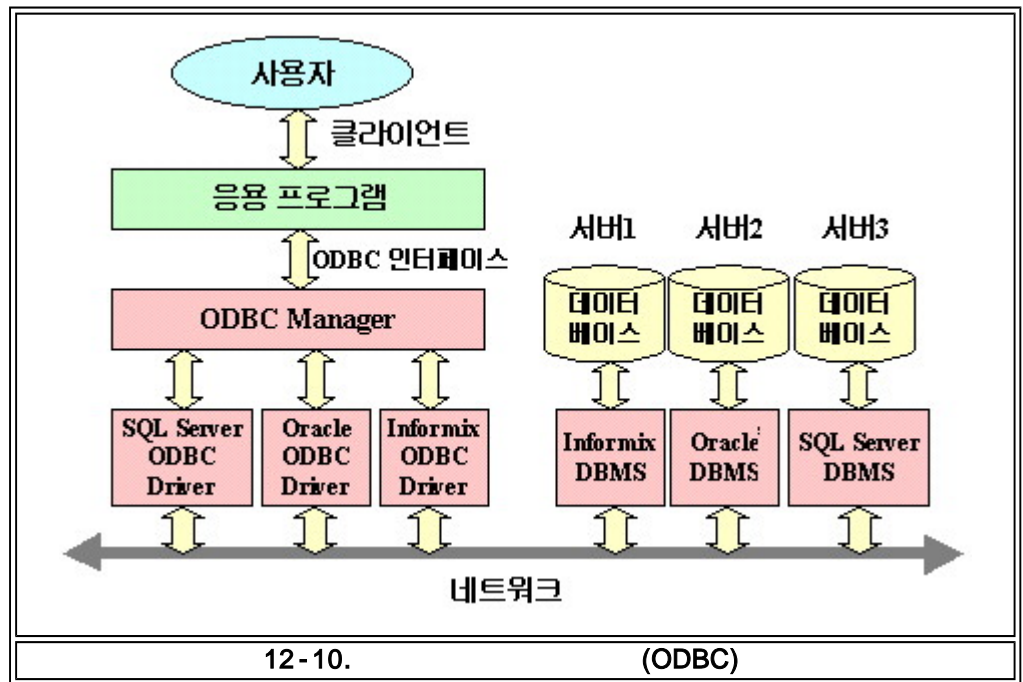
12-9

/

ODBC



12-8 ODBC ODBC ODBC  
가 . ODBC  
. ODBC DBMS DBMS  
DBMS ODBC ODBC API ODBC DBMS  
12-10 DBMS가 가 가



DBMS DBMS 가 ODBC  
ODBC DBMS 가 가  
DBMS ODBC

## 2. Web

Web Web  
HTTP , , DBMS  
DBMS  
/ DBMS

## 2.1

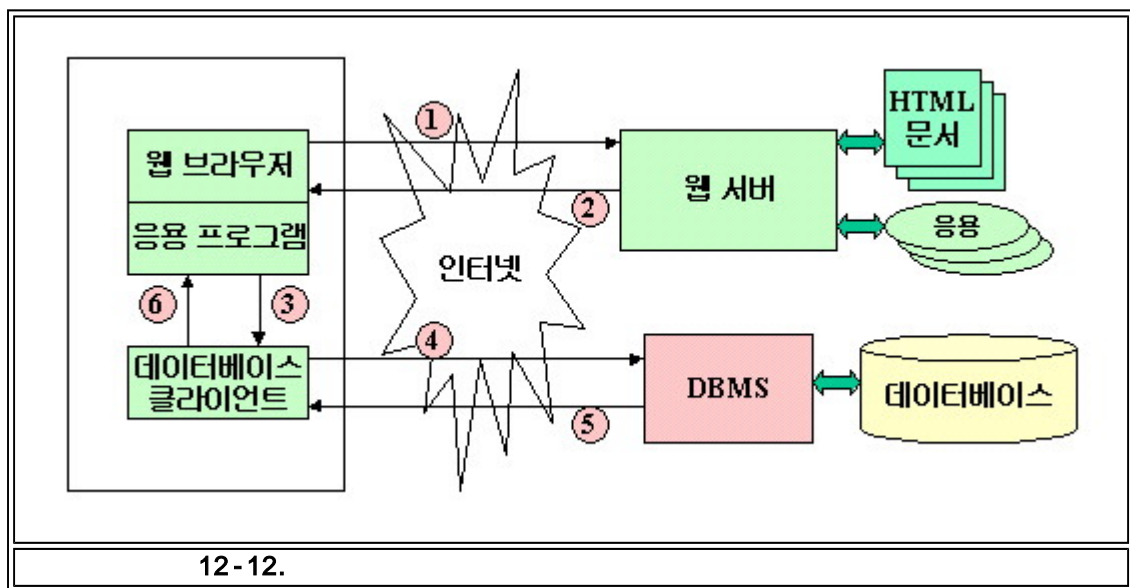
```

graph LR
    WB[웹 브라우저] -- 요청 --> I((인터넷))
    I -- 응답 --> WS[웹 서버]
    WS <--> HD[HTML 문서]
    WS <--> DI[데이터베이스 인터페이스 소프트웨어]
    DI <--> DBMS[DBMS]
    DBMS <--> DB[(데이터베이스)]
  
```

12-11.

- 
- (
- DBMS
- 

가 , 가 , , . 가 ,



12-12

1. 가
2. HTML
- 3.

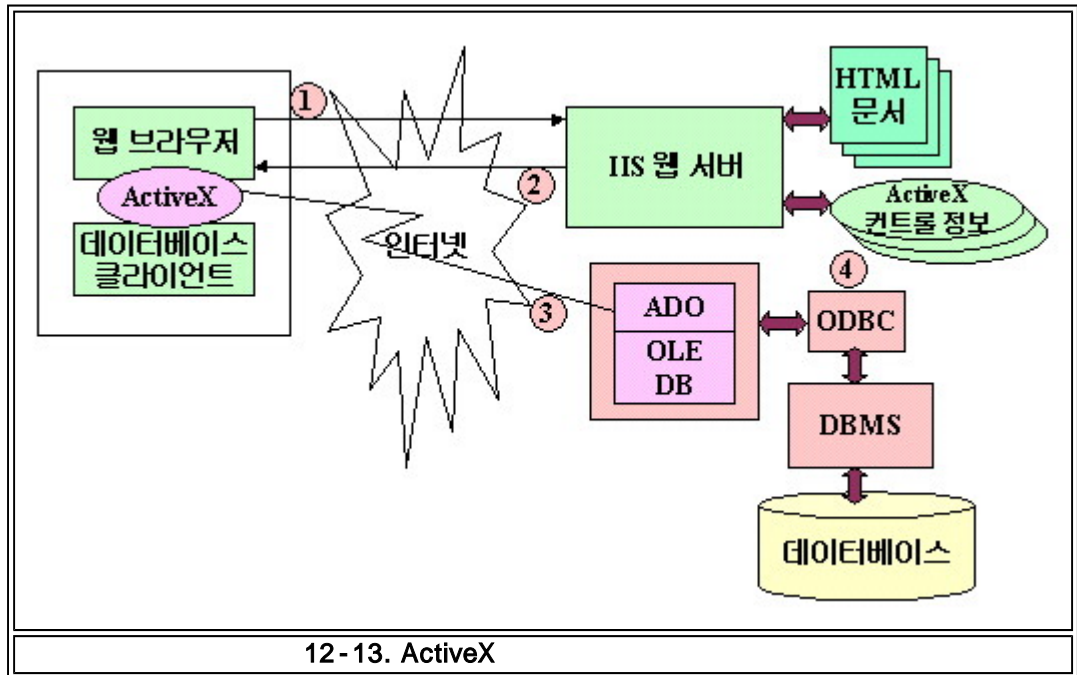
JDBC ADO(ActiveX Data Object)

- 4.
- 5.
- 6.

**ActiveX**

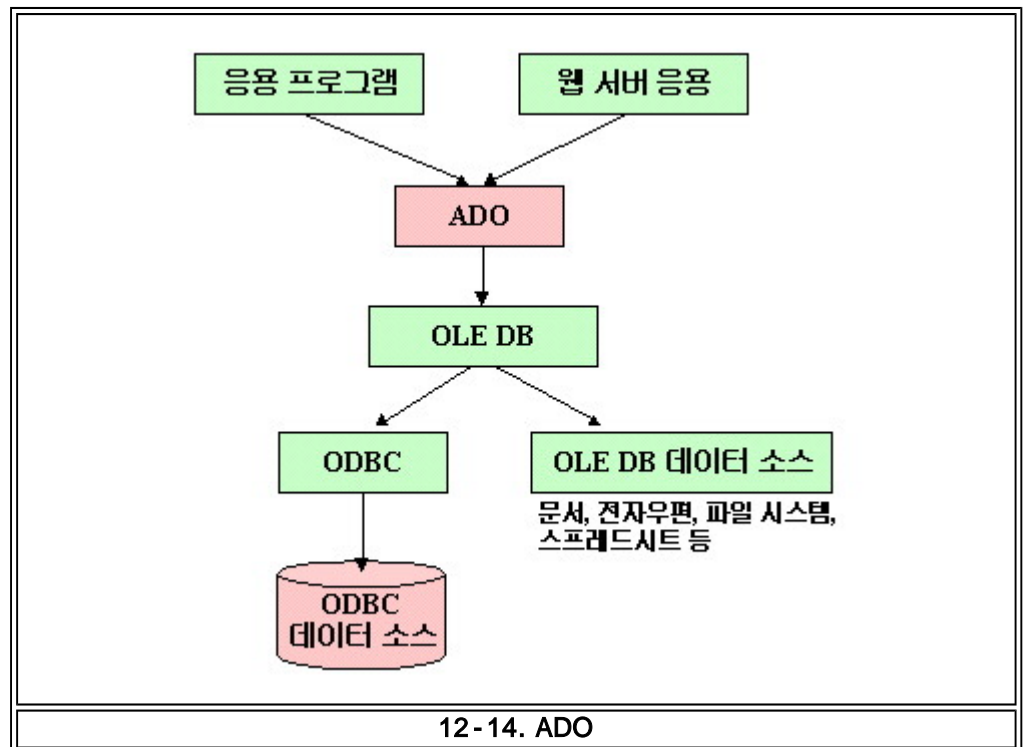
Server) IIS (Internet Information  
 SQL Server API ISAPI  
 Netscape Internet Explorer  
 HTML ODBC(Open DataBase  
 Connectivity) DBMS

IIS 가 , ActiveX SQL Server , HTML  
 , ActiveX VBScript 가  
 HTML 12-13 MS IIS ADO



12-13 ActiveX 가 URL  
 HTML ActiveX  
 ActiveX ADO(ActiveX Data Object)  
 OLE DB OLE DB ODBC  
 OLE DB  
 , , , COM , ODBC , OLE DB  
 ODBC JDBC가 OLE DB  
 OLE DB가  
 ActivrX 가  
 ADO . ADO ActiveX OLE DB  
 . ActiveX COM . ActiveX  
 , ActiveX  
 VBScript Visual J++ ADO . OLE DB  
 ODBC가

12-14 ADO

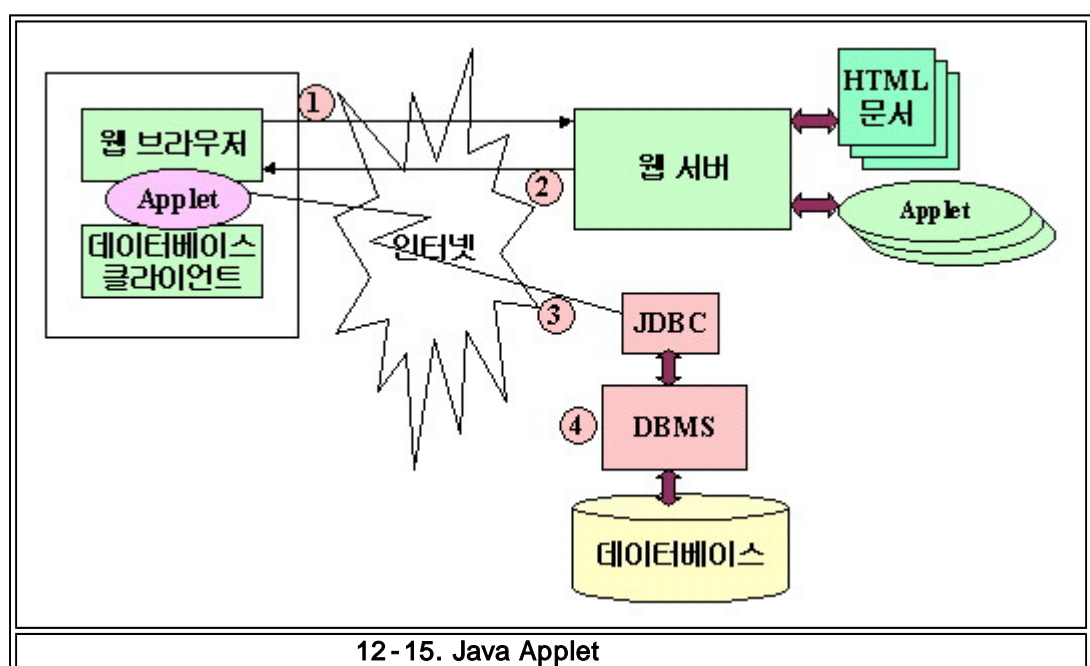


## Java Applet

Sun Microsoft

Java applet, JavaBeans, JDBC

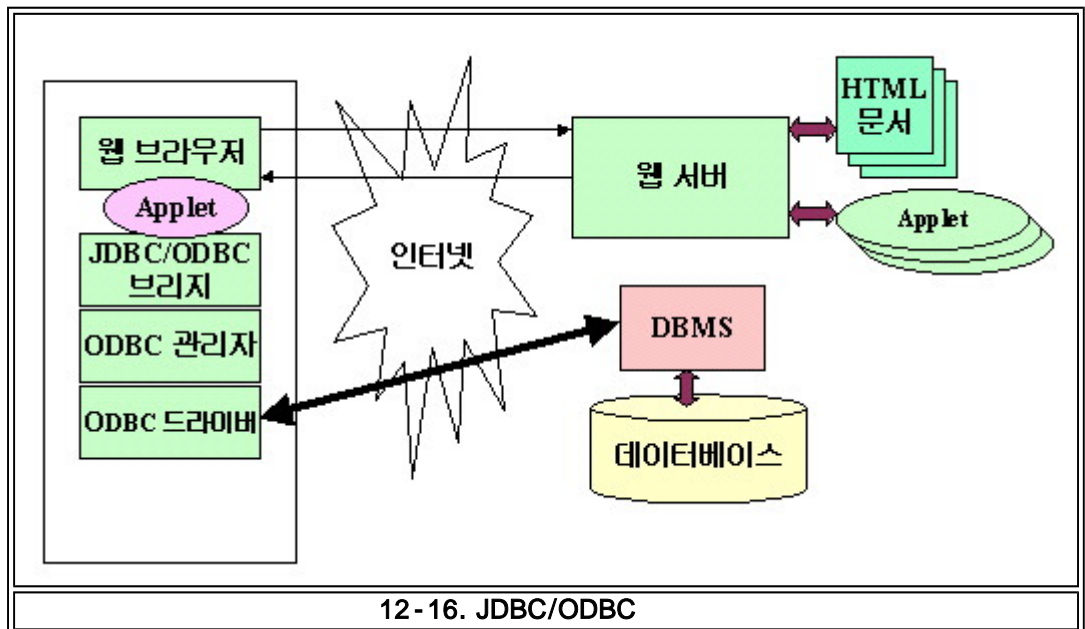
12-15  
applet JDBC



Applet  
가  
JDBC  
JDBC

JDBC Java Java JDBC ODBC , SQL  
가  
API

ODBC Java ODBC Java  
JDBC/ODBC 12-16 JDBC 가 ODBC

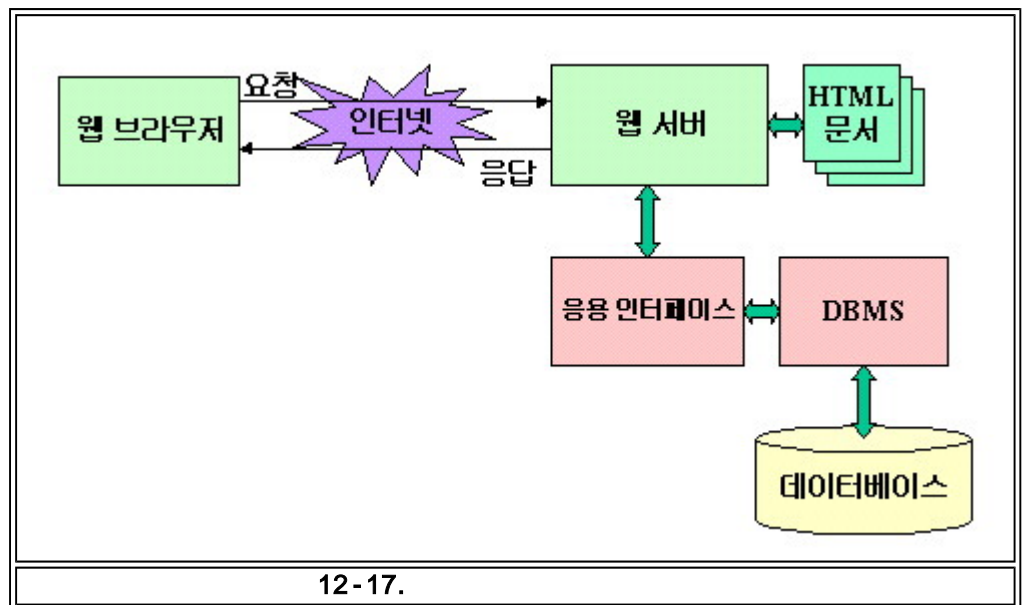


servlet 가 HTTP ASP, CGI,

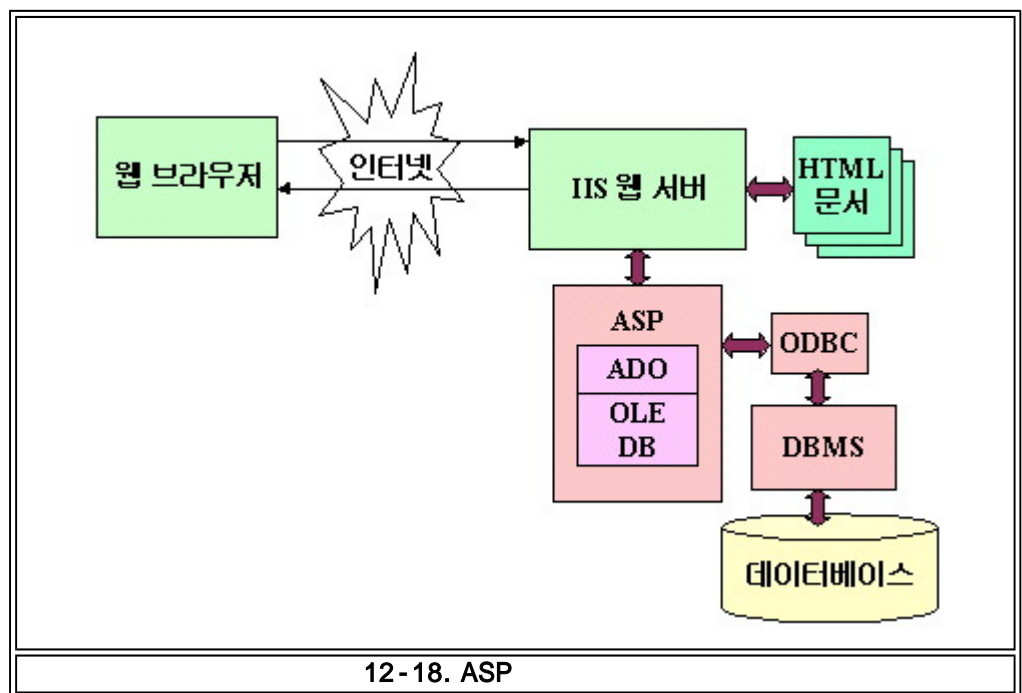
URL, HTTP, HTML WWW 가

12-17



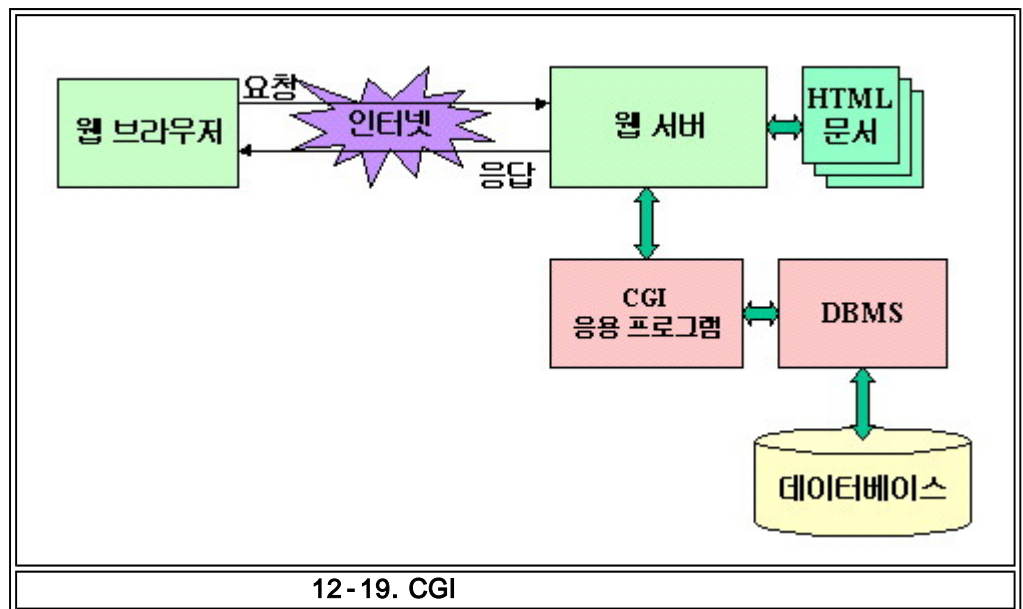


12-18 ASP(Active Server Page)  
 . ASP ADO



12-18 ASP HTML

12-19 CGI



12-19  
back-end

(HTML form action CGI back-end HTML)

back-end

CGI

1. 가 CGI
2. CGI
3. CGI HTML
4. CGI
- 5.

가 가 CGI 가 ASP CGI