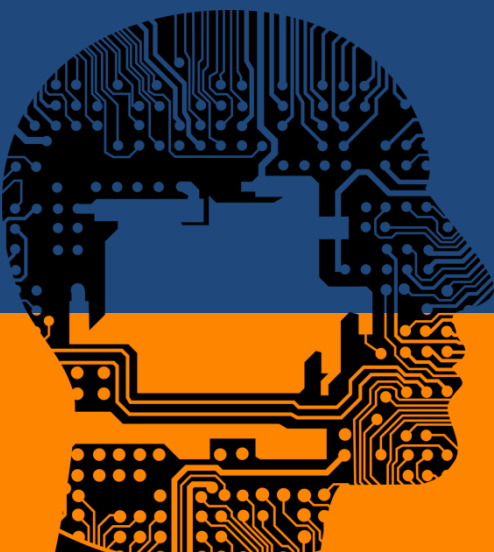


JAVA 웹 개발자 양성과정 DataBase



4강 - SQL 기본

By SoonGu Hong

JAVA 웹 개발자 양성과정

DataBase

1. SELECT문



➤ SELECT문 기본

SELECT

```
employee_id,  
first_name,  
last_name,  
email
```

```
FROM employees;
```

- 사원 테이블에서 사원 아이디,
사원 이름, 성, 이메일을 조회하라.

	EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL
1	100	Steven	King	SKING
2	101	Neena	Kochhar	NKOCHHAR
3	102	Lex	De Haan	LDEHAAN
4	103	Alexander	Hunold	AHUNOLD
5	104	Bruce	Ernst	BERNST
6	105	David	Austin	DAUSTIN
7	106	Valli	Pataballa	VPATABAL
8	107	Diana	Lorentz	DLORENTZ
9	108	Nancy	Greenberg	NGREENBE
10	109	Daniel	Faviet	DFAVIET
11	110	John	Chen	JCHEN
12	111	Ismael	Sciarra	ISCIARRA
13	112	Jose Manuel	Urman	JMURMAN
14	113	Luis	Popp	LPOPP

➤ SELECT문 기본

```
SELECT
```

```
*
```

```
FROM employees;
```

- 사원 테이블에서 사원의 모든 컬럼을 조회하라.

EMPLOYEE_ID	FIRST_NAME	LAST_NAME	EMAIL	PHONE_NUMBER	HIRE_DATE	JOB_ID	SALARY	COMMISSION_PCT
100	Steven	King	SKING	515.123.4567	03/06/17	AD_PRES	24000	(null)
101	Neena	Kochhar	NKOCHHAR	515.123.4568	05/09/21	AD_VP	17000	(null)
102	Lex	De Haan	LDEHAAN	515.123.4569	01/01/13	AD_VP	17000	(null)
103	Alexander	Hunold	AHUNOLD	590.423.4567	06/01/03	IT_PROG	9000	(null)
104	Bruce	Ernst	BERNST	590.423.4568	07/05/21	IT_PROG	6000	(null)
105	David	Austin	DAUSTIN	590.423.4569	05/06/25	IT_PROG	4800	(null)
106	Valli	Pataballa	VPATABAL	590.423.4560	06/02/05	IT_PROG	4800	(null)
107	Diana	Lorentz	DLORENTZ	590.423.5567	07/02/07	IT_PROG	4200	(null)
108	Nancy	Greenberg	NGREENBE	515.124.4569	02/08/17	FI_MGR	12008	(null)
109	Daniel	Faviet	DFAVIET	515.124.4169	02/08/16	FI_ACCOUNT	9000	(null)
110	John	Chen	JCHEN	515.124.4269	05/09/28	FI_ACCOUNT	8200	(null)
111	Ismael	Sciarra	ISCIARRA	515.124.4369	05/09/30	FI_ACCOUNT	7700	(null)
112	Jose Manuel	Urman	JMURMAN	515.124.4469	06/03/07	FI_ACCOUNT	7800	(null)
113	Luis	Popp	LPOPP	515.124.4567	07/12/07	FI_ACCOUNT	6900	(null)
114	Den	Raphaely	DRAPHEAL	515.127.4561	02/12/07	PU_MAN	11000	(null)

➤ ORDER BY 문

SELECT

first_name,
last_name,
salary

FROM employees

ORDER BY salary **ASC**;

- 디폴트가 ASC
- ASC : 오름차순
- DESC : 내림차순

	FIRST_NAME	LAST_NAME	SALARY
1	TJ	Olson	2100
2	Steven	Markle	2200
3	Hazel	Philtanker	2200
4	James	Landry	2400
5	Ki	Gee	2400
6	Karen	Colmenares	2500
7	James	Marlow	2500
8	Joshua	Patel	2500
9	Peter	Vargas	2500
10	Martha	Sullivan	2500

SELECT

first_name,
last_name,
salary

FROM employees

ORDER BY first_name, last_name **DESC**;

- FIRST_NAME은 오름차순
- LAST_NAME은 내림차순

10	Anthony	Cabrio	3000
11	Britney	Everett	3900
12	Bruce	Ernst	6000
13	Charles	Johnson	6200
14	Christopher	Olsen	8000
15	Clara	Vishney	10500
16	Curtis	Davies	3100
17	Daniel	Faviet	9000
18	Danielle	Greene	9500
19	David	Lee	6800
20	David	Bernstein	9500
21	David	Austin	4800
22	Den	Raphaely	11000
23	Diana	Lorentz	4200



JAVA 웹 개발자 양성과정 DataBase

2. INSERT, UPDATE, DELETE

➤ INSERT문

① 테이블 생성

```
CREATE TABLE BOARD (  
    board_id NUMBER PRIMARY KEY,  
    title VARCHAR2(255),  
    writer VARCHAR2(255),  
    content VARCHAR2(255)  
);
```

② 데이터 삽입

```
INSERT INTO BOARD  
    (board_id, title, writer, content)  
VALUES  
    (1, 'hello', 'kim', 'hi my name is KIM');
```

③ 데이터 확인

```
SELECT * FROM BOARD;
```

	BOARD_ID	TITLE	WRITER	CONTENT
1	1	hello	kim	hi my name is KIM

➤ UPDATE문

① 테이블 생성

- BOARD 테이블 사용

② 데이터 입력

```
INSERT INTO BOARD VALUES (2, 'hello2', 'park', 'hi my name is PARK');  
INSERT INTO BOARD VALUES (3, 'hello3', 'hong', 'hi my name is HONG');  
INSERT INTO BOARD VALUES (4, 'hello4', 'lee', 'hi my name is LEE');  
INSERT INTO BOARD VALUES (5, 'hello5', 'choi', 'hi my name is CHOI');
```

③ 데이터 확인

```
SELECT * FROM BOARD;
```

	BOARD_ID	TITLE	WRITER	CONTENT
1	1	hello	kim	hi my name is KIM
2	2	hello2	park	hi my name is PARK
3	3	hello3	hong	hi my name is HONG
4	4	hello4	lee	hi my name is LEE
5	5	hello5	choi	hi my name is CHOI

➤ UPDATE문

④ UPDATE 실행 및 데이터 확인

```
UPDATE BOARD  
SET writer = 'yayaya',  
    title = 'whywhywhy'  
WHERE board_id = 2;
```

```
SELECT * FROM BOARD;
```

	BOARD_ID	TITLE	WRITER	CONTENT
1	1	hello	kim	hi my name is KIM
2	2	whywhywhy	yayaya	hi my name is PARK
3	3	hello3	hong	hi my name is HONG
4	4	hello4	lee	hi my name is LEE
5	5	hello5	choi	hi my name is CHOI

➤ DELETE문

```
DELETE  
FROM BOARD  
WHERE board_id = 4;
```

	BOARD_ID	TITLE	WRITER	CONTENT
1	1	hello	kim	hi my name is KIM
2	2	whywhywhy	yayaya	hi my name is PARK
3	3	hello3	hong	hi my name is HONG
4	5	hello5	choi	hi my name is CHOI

감사합니다
THANK YOU