SQL 미션#2

조인과 서브쿼리를 사용해 업무 쿼리 작성하기

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조인문제1

1. irst_name이 A로 시작하는 사원의 사번, 이름, 부서아이디, 부서명을 출력함

```
SELECT
  e.employee_id
  , e.first_name
  , d.department_id
  , d.department_name
FROM employees e JOIN departments d
ON e.department_id = d.department_id
AND first_name LIKE 'A%';
```

```
-- 1. employees 테이블에서 first_name이 A로 시작하는 사원의 사번, 이름, 부서아이디, 부서명을 출력함
SELECT
  e.employee_id
  , e.first_name
  , d.department_id
  , d.department_name
FROM employees e JOIN departments d
ON e.department_id = d.department_id
AND first_name LIKE 'A%';
```

스크립트 출력 x | 질의 결과 x | 질의 결과 1 x | 질의 결과 2 x | 질의 결과 3 x | 질의 결과 4 x | 질의 결

SQL | 인출된 모든 행: 10(0.001초)

	EMPLOYEE_ID	FIRST_NAME	DEPARTMENT_ID	DEPARTMENT_NAME
1	103	Alexander	60	IT
2	115	Alexander	30	Purchasing
3	121	Adam	50	Shipping
4	147	Alberto	80	Sales
5	158	Allan	80	Sales
6	167	Amit	80	Sales
7	175	Alyssa	80	Sales
8	185	Alexis	50	Shipping
9	187	Anthony	50	Shipping
10	196	Alana	50	Shipping

조인문제2

2. salary가 3000과 5000사이인 사원의 사번, 이름, 부서명, 직무제목, 지역 우편번호, 국가명, 지역명을 출력함

SELECT

e.employee_id, e.first_name, d.department_name,

j.job_title, l.postal_code, c.country_name, r.region_name

FROM employees e, departments d ,jobs j, locations l, countries c, regions r

WHERE e.department_id = d.department_id(+)

AND e.job_id = j.job_id(+)

AND d.location_id = l.location_id(+)

AND l.country_id = c.country_id(+)

AND c.region_id = r.region_id(+);

```
-- 2. salary가 3000과 5000사이인 사원의 사번, 이름, 부서명, 직무제목, 지역 우편번호, 국가명, 지역명을 출력함
SELECT
  e.employee_id,
  e.first_name,
  d.department_name,
  j.job_title,
  l.postal_code,
  c.country_name,
  r.region_name
FROM employees e, departments d ,jobs j, locations l, countries c, regions r
WHERE e.department_id = d.department_id(+)
AND e.job_id = j.job_id(+)
AND d.location_id = l.location_id(+)
AND l.country_id = c.country_id(+)
AND c.region_id = r.region_id(+);
```

스크립트 출력 | 질의 결과 | 질의 결과 1 | 질의 결과 2 | 질의 결과 3 | 질의 결과 4 | 질의 결과 5 | 질의 결과 6 | 질의 결과 7 | 질의 결과 8

SQL | 50개의 행이 인출됨(0.002초)

	EMPLOYEE_ID	FIRST_NAME	DEPARTMENT_NAME	JOB_TITLE	POSTAL_CODE	COUNTRY_NAME	REGION_NAME
22	121	Adam	Shipping	Stock Manager	99236	United States of America	Americas
23	122	Payam	Shipping	Stock Manager	99236	United States of America	Americas
24	123	Shanta	Shipping	Stock Manager	99236	United States of America	Americas
25	124	Kevin	Shipping	Stock Manager	99236	United States of America	Americas
26	125	Julia	Shipping	Stock Clerk	99236	United States of America	Americas
27	126	Irene	Shipping	Stock Clerk	99236	United States of America	Americas
28	127	James	Shipping	Stock Clerk	99236	United States of America	Americas
29	128	Steven	Shipping	Stock Clerk	99236	United States of America	Americas
30	129	Laura	Shipping	Stock Clerk	99236	United States of America	Americas
31	130	Mozhe	Shipping	Stock Clerk	99236	United States of America	Americas
32	131	James	Shipping	Stock Clerk	99236	United States of America	Americas
33	132	TJ	Shipping	Stock Clerk	99236	United States of America	Americas
34	133	Jason	Shipping	Stock Clerk	99236	United States of America	Americas
35	134	Michael	Shipping	Stock Clerk	99236	United States of America	Americas
36	135	Ki	Shipping	Stock Clerk	99236	United States of America	Americas
37	136	Hazel	Shipping	Stock Clerk	99236	United States of America	Americas
38	137	Renske	Shipping	Stock Clerk	99236	United States of America	Americas
39	138	Stephen	Shipping	Stock Clerk	99236	United States of America	Americas
40	139	John	Shipping	Stock Clerk	99236	United States of America	Americas
41	140	Joshua	Shipping	Stock Clerk	99236	United States of America	Americas
42	141	Trenna	Shipping	Stock Clerk	99236	United States of America	Americas
43	142	Curtis	Shipping	Stock Clerk	99236	United States of America	Americas

서브쿼리문제1

3. 잡아이디가 IT로 시작하는 부서에 속한 사원의 사번, 이름, 부서명, 급여를 출력함

```
SELECT
  e.employee_id, e.first_name, d.department_name, e.salary
FROM
  employees e JOIN departments d
ON e.department_id = d.department_id
WHERE employee_id IN (SELECT
                        e.employee_id
                      FROM
                        employees e JOIN departments d
                      ON e.department_id = d.department_id
                        JOIN jobs j
                      ON e.job_id = j.job_id
                      AND j.job_id LIKE 'IT%'
                      );
```

```
-- 3.  잡아이디가 IT로 시작하는 부서에 속한 사원의 사번, 이름, 부서명, 급여를 출력함
SELECT
  e.employee_id,
  e.first_name,
  d.department_name,
  e.salary
FROM
  employees e JOIN departments d
ON e.department_id = d.department_id
WHERE employee_id IN (SELECT
                        e.employee_id
                      FROM
                        employees e JOIN departments d
                      ON e.department_id = d.department_id
                        JOIN jobs j
                      ON e.job_id = j.job_id
                      AND j.job_id LIKE 'IT%'
                      );
```

스크립트 출력 | 질의 결과 | 질의 결과 1 | 질의 결과 2 | 질의 결과 3 | 질의 결과 4

SQL | 인출된 모든 행: 5(0.001초)

	EMPLOYEE_ID	FIRST_NAME	DEPARTMENT_NAME	SALARY
1	107	Diana	IT	4200
2	104	Bruce	IT	6000
3	105	David	IT	4800
4	103	Alexander	IT	9000
5	106	Valli	IT	4800

서브쿼리문제2

4. 사원의 사번, 이름, 부서명, 잡히스토리 횟수를
출력하되 잡히스토리가 2회 이상인 사원만 출력함

```
SELECT
  e.employee_id , e.first_name , d.department_name
  , (SELECT COUNT(job_id)
     FROM job_history jh
     WHERE jh.employee_id = e.employee_id) jh_count
FROM employees e, departments d
WHERE e.department_id = d.department_id(+)
AND (SELECT COUNT(job_id)
      FROM job_history jh
      WHERE jh.employee_id = e.employee_id) >= 2;
```

```
-- 4.  사원의 사번, 이름, 부서명, 잡히스토리 횟수를 출력하되 잡히스토리가 2회 이상인 사원만 출력함
SELECT
  e.employee_id
  , e.first_name
  , d.department_name
  , (SELECT COUNT(job_id)
    FROM job_history jh
    WHERE jh.employee_id = e.employee_id) jh_count
FROM employees e, departments d
WHERE e.department_id = d.department_id(+)
AND (SELECT COUNT(job_id)
     FROM job_history jh
     WHERE jh.employee_id = e.employee_id) >= 2;
```

스크립트 출력 x | 질의 결과 x | 질의 결과 1 x | 질의 결과 2 x | 질의 결과 3 x | 질의 결과 4 x | 질의 결과 5 x

SQL | 인출된 모든 행: 3(0.002초)

	EMPLOYEE_ID	FIRST_NAME	DEPARTMENT_NAME	JH_COUNT
1	101	Neena	Executive	2
2	176	Jonathon	Sales	2
3	200	Jennifer	Administration	2