Experiment 10:

1. The HR department needs a list of department IDs for departments that do not contain

the job ID ST_CLERK. Use set operators to create this report.

```
SELECT department_id FROM DEPARTMENT
MINUS
SELECT department_id FROM EMPL WHERE job_id = 'ST_CLERK';
```

OUTPUT:

DEPARTMENT_ID
20
50
60

3 rows returned in 0.02 seconds Download

2. The HR department needs a list of countries that have no departments located in them.

Display the country ID and the name of the countries. Use set operators to create this report.

```
SELECT country_id, country_name
FROM COUNTRIES
MINUS
SELECT DISTINCT c.country_id, c.country_name
FROM COUNTRIES c
JOIN DEPARTMENT d ON c.country_id = d.country_id;
```

OUTPUT:

COUNTRY_ID	COUNTRY_NAME
FR	France

1 rows returned in 0.01 seconds Download

3. Produce a list of jobs for departments 10, 50, and 20, in that order. Display job ID and

department ID using set operators.

```
1  SELECT job_id, department_id FROM EMPL WHERE department_id = 10
2  UNION ALL
3  SELECT job_id, department_id FROM EMPL WHERE department_id = 50
4  UNION ALL
5  SELECT job_id, department_id FROM EMPL WHERE department_id = 20;
6
7
8
```

OUTPUT:

JOB_ID	DEPARTMENT_ID
ST_CLERK	10
SA_REP	50
MK_MAN	20

3 rows returned in 0.01 seconds Download

4. Create a report that lists the employee IDs and job IDs of those employees who

currently have a job title that is the same as their job title when they were initially

hired by the company (that is, they changed jobs but have now gone back to doing

their original job).

```sql
SELECT e.employee_id, e.job_id
FROM EMPL e
JOIN JOB_HISTORY jh ON e.employee_id = jh.employee_id
WHERE e.job_id = jh.job_id;
```

OUTPUT:

EMPLOYEE_ID	JOB_ID
102	IT_PROG
103	SA_REP
104	MK_MAN

3 rows returned in 0.06 seconds Download

5. The HR department needs a report with the following specifications:

- Last name and department ID of all the employees from the EMPLOYEES table, regardless of

whether or not they belong to a department.

- Department ID and department name of all the departments from the DEPARTMENTS table,

regardless of whether or not they have employees working in them Write a compound query to

accomplish this.

```sql
SELECT last_name, department_id FROM EMPL
UNION
SELECT department_name, department_id FROM DEPARTMENT;
```

OUTPUT:

LAST_NAME	DEPARTMENT_ID
Administration	10
Brown	50
IT	60
Jones	60