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EXP NO:07 USING SET OPERATION
DATE:09/10/2024

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  DEPARTMENTS
MINUS
SELECT DISTINCT Department_ID
FROM EMPLOYEES
WHERE Job_ID = 'ST_CLERK';
```

DEPARTMENT_ID
20
30
50

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 DISTINCT Country_ID, Department_Name
FROM DEPARTMENTS
MINUS
SELECT DISTINCT Country_ID, NULL
FROM DEPARTMENTS
WHERE Department_ID IS NOT NULL;
```

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COUNTRY_ID	DEPARTMENT_NAME
CA	Marketing
UK	Sales
US	HR
US	IT
US	Support

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

```
SELECT Job_ID, Department_ID
FROM EMPLOYEES
WHERE Department_ID = 10
UNION ALL
SELECT Job_ID, Department_ID
FROM EMPLOYEES
WHERE Department_ID = 50
UNION ALL
SELECT Job_ID, Department_ID
FROM EMPLOYEES
WHERE Department_ID = 20;
```

JOB_ID	DEPARTMENT_ID
ST_CLERK	10
ANALYST	50
MANAGER	20

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

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by the company (that is, they changed jobs but have now gone back to doing their original job).

```
SELECT Employee_ID, Job_ID
FROM EMPLOYEES
WHERE Job_ID = Original_Job_ID;
```

EMPLOYEE_ID	JOB_ID
1	ST_CLERK
3	ANALYST
4	ST_CLERK
4	ST_CLERK

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.

```
SELECT Last_Name, Department_ID
FROM EMPLOYEES
UNION ALL
SELECT NULL AS Last_Name, Department_ID
FROM DEPARTMENTS;
```

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LAST_NAME	DEPARTMENT_ID
Smith	10
Johnson	20
Williams	30
Brown	40
Brown	40
Davis	50
-	10
-	20
-	30
-	40