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AI&DS

#### EXERCISE 10: USING THE SET OPERATORS

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.

User: SYSTEM

Home > SQL > SQL Commands

☒ Autocommit Display 10

```
SELECT DISTINCT department_id
FROM job_history
MINUS
SELECT DISTINCT department_id
FROM job_history
WHERE job_id = 'ST_CLERK';
```

Results Explain Describe Saved SQL History

DEPARTMENT_ID
10
30

2 rows returned in 0.00 seconds [CSV Export](#)

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.

User: SYSTEM

Home > SQL > SQL Commands

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```
SELECT country_id, country_name
FROM countries
MINUS
SELECT DISTINCT c.country_id, c.country_name
FROM countries c
JOIN locations l ON c.country_id = l.country_id
JOIN departments d ON l.location_id = d.location_id;
```

**Results** Explain Describe Saved SQL History

COUNTRY_ID	COUNTRY_NAME
FR	France

1 rows returned in 0.00 seconds [CSV Export](#)

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

User: SYSTEM

Home > SQL > SQL Commands

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```
SELECT job_id, department_id
FROM job_history
WHERE department_id = 10
UNION ALL
SELECT job_id, department_id
FROM job_history
WHERE department_id = 50
UNION ALL
SELECT job_id, department_id
FROM job_history
WHERE department_id = 20
ORDER BY department_id;
```

**Results** Explain Describe Saved SQL History

JOB_ID	DEPARTMENT_ID
AD_ASST	10
ST_CLERK	20

2 rows returned in 0.01 seconds [CSV Export](#)

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).

User: SYSTEM

Home > SQL > SQL Commands

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```
SELECT e.employee_id, e.job_id
FROM employees e
JOIN job_history jh ON e.employee_id = jh.employee_id
WHERE e.job_id = jh.job_id;
```

**Results** Explain Describe Saved SQL History

EMPLOYEE_ID	JOB_ID
104	IT_PROG
105	ST_CLERK
104	IT_PROG
105	ST_CLERK

4 rows returned in 0.00 seconds [CSV Export](#)

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.

User: SYSTEM

Home > SQL > SQL Commands

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```
SELECT last_name, department_id, NULL AS department_name
FROM employees
UNION
SELECT NULL AS last_name, department_id, department_name
FROM departments;
```

**Results** Explain Describe Saved SQL History

LAST_NAME	DEPARTMENT_ID	DEPARTMENT_NAME
Mehta	50	-
Rao	20	-
Singh	-	-
Verma	30	-
-	10	Administration
-	20	Sales
-	30	IT
-	50	Finance

8 rows returned in 0.00 seconds

[CSV Export](#)