

EXERCISE ABOUT JOIN - ANSWERS

1. Write a query in SQL to display the first name, last name, department number, and department name for each employee.

```
SELECT E.first_name , E.last_name, E.department_id , D.department_name  
FROM employees E  
JOIN departments D  
ON E.department_id = D.department_id;
```

2. Write a query in SQL to display the start date, end date first name, last name for employees with last name as Taylor.

```
SELECT first_name, last_name, start_date, end_date  
FROM employees, job_history  
WHERE employees.employee_id = job_history.employee_id  
AND last_name = 'Taylor';
```

3. Write a query in SQL to display the country names and region name for the region id is 2.

```
select country_name, region_name  
from countries, regions  
where countries.region_id = regions.region_id  
and regions.region_id = 2;
```

4. Write a query in SQL to display the min and max salaries and job title for the employees whose job ids IT_PROG and the employees whose department ids are 110.

```
select j.min_salary, j.max_salary, j.job_title  
from jobs j, job_history h where j.job_id =  
h.job_id  
and h.job_id = 'IT_PROG' or h.department_id = 110;
```

5. Write a query in SQL to display the first and last name, department, city, and state province for each employee.

```
SELECT E.first_name,E.last_name, D.department_name, L.city,  
L.state_province FROM employees E  
JOIN departments D ON E.department_id = D.department_id  
JOIN locations L ON D.location_id = L.location_id;
```

6. Write a query in SQL to display the first name, last name, department number and department name, for all employees for departments 80 or 40 and order by last name.

```
SELECT E.first_name , E.last_name, E.department_id , D.department_name  
FROM employees E  
JOIN departments D ON E.department_id = D.department_id  
AND E.department_id IN (80 , 40)  
ORDER BY E.last_name;
```

7. Write a query in SQL to display those employees who contain a letter z to their first name and also display their last name, department, city, and state province.

```
SELECT E.first_name,E.last_name, D.department_name, L.city,  
L.state_province FROM employees E  
JOIN departments D ON E.department_id = D.department_id  
JOIN locations L ON D.location_id = L.location_id  
WHERE E.first_name LIKE '%z%';
```

8. Write a query in SQL to display all departments including those where does not have any employee. (Use RIGHT OUTER JOIN)

```
SELECT E.first_name, E.last_name, D.department_id, D.department_name  
FROM employees E  
RIGHT OUTER JOIN departments D ON E.department_id = D.department_id;
```

9. Write a query in SQL to display the department name, city, and state province for each department.

```
SELECT D.department_name , L.city , L.state_province  
FROM departments D  
JOIN locations L  
ON D.location_id = L.location_id;
```

10. Write a query in SQL to display the first name, last name, department number and name, for all employees who have or have not any department. (Use LEFT OUTER JOIN)

```
SELECT E.first_name, E.last_name, E.department_id,  
D.department_name FROM employees E  
LEFT OUTER JOIN departments D  
ON E.department_id = D.department_id;
```
