**Lab - 4**

**SQL query based on Joins I**

1. Write a query in SQL to display all departments including those where does not have any employee.

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| QUERY | SELECT d.department\_id, d.department\_name, e.employee\_id  FROM departments d  LEFT JOIN employees e ON d.department\_id = e.department\_id; |
| OUTPUT |  |

1. Write a query in SQL to display the first and last name and salary for those employees who earn less than the employee earn whose number is 182.

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| QUERY | SELECT first\_name, last\_name, salary  FROM employees  WHERE salary < (SELECT salary  FROM employees  WHERE employee\_id = 182); |
| OUTPUT |  |

1. Write a query in SQL to display the first name of all employees including the first name of their manager.

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| QUERY | SELECT e1.first\_name AS employee\_first\_name, e2.first\_name AS manager\_first\_name  FROM employees e1  LEFT JOIN employees e2  ON e1.manager\_id = e2.employee\_id; |
| OUTPUT |  |

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

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| QUERY | SELECT d.department\_name, l.city, l.state\_province  FROM departments d  JOIN locations l  ON d.location\_id = l.location\_id; |
| OUTPUT |  |

1. 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.

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| --- | --- |
| QUERY | SELECT e.first\_name, e.last\_name, e.department\_id, d.department\_name  FROM employees e  LEFT JOIN departments d  ON e.department\_id = d.department\_id; |
| OUTPUT |  |