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DAD-220  
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### DAD 220 Module Two Activity Template

1. How many records are shown in the Employee table?
  - There are 5 records shown in the Employee table.
2. How many attributes are there in the Branches table?
  - There are 2 attributes in the Branches table: Department\_ID and Department\_Name.
3. Which attribute could be a primary key for the Employee table?
  - The Employee\_ID attribute could be a primary key for the Employee table, assuming it contains unique values for each employee.
4. How many decimal places (maximum) can be stored in an employee's salary field?
  - The employee's salary field can store a maximum of 2 decimal places.
5. How many decimal places (maximum) can a Department\_ID have?
  - The Department\_ID is defined as SMALLINT, which typically does not store decimal places. It stores whole numbers (integers) without decimal places.
6. What three rules do tables obey?
  - Tables in a relational database obey the three rules of the relational model:
    - Tables are normalized.
    - Each column in a table must have a unique name.
    - No duplicate rows.
7. Is the Employee table normalized? How do you know?
  - It is normalized because there is only one value per cell.
8. What is the result of the following query?
  - `Select sum(Salary) from Employee where Department_ID=3;`



- The result would be the sum of salaries for employees in Department\_ID 3. Calculation: 80000.0 (Michael Jones) + 90000.0 (John Smith) = 170000.0
  
- 9. Identify the Employee ID(s) that would be returned as a result of the following query.
  - Select \* from Employee where Classification <> 'Exempt';
    - The Employee ID(s) returned would be those of employees whose Classification is not 'Exempt.' In this case, Employee\_ID 101 (Mary Jones) and Employee\_ID 104 (Michael Jones) would be returned.
  
- 10. What is the result of the following query?
  - Select max(Salary) from Employee;
    - The result would be the maximum (highest) salary among all employees in the Employee table.
    - Maximum Salary: 90000.0 (John Smith and Michael Jones both have this salary).