DATA SCIENCE ASSESSMENT.

1]Insert a new employee named "Alice Johnson" with an EmployeeID of 3. Write the

SQL command to insert this new employee.

ANS;

| INSERT INTO Employee (EmployeeID, EmployeeName) VALUES (3, 'Alice Johnson'); |
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2. Insert a new assignment with Assignment\_ID of 3, assigning date '2024-07-23', for the

'HR' department and the 'Project Alpha' project. Write the SQL command to insert this

new assignment.

ANS;

| INSERT INTO Assignment (Assignment\_ID, assigning\_date, Department\_ID, Project\_Id) VALUES (3, '2024-07-23', (SELECT Department\_ID FROM Department WHERE Department\_Name = 'HR'),  (SELECT ProjectId FROM Project WHERE ProjectName = 'Project Alpha')); |
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3. Add a new column Email of type VARCHAR(100) to the Employee table. Write the

SQL command to alter the Employee table.

Ans;ALTER TABLE Employee ADD COLUMN Email VARCHAR(100);

4. Change the data type of the Department\_Name column in the Department table from

VARCHAR(225) to VARCHAR(255). Write the SQL command to alter the Department

table.

Ans;ALTER TABLE Department MODIFY COLUMN Department\_Name VARCHAR(255);

5.Increase the salary of all employees who work in the 'IT' department by 10%. Assume

there is a salary column in the Employee table. Write the SQL command to perform

this update.

ANS;

| ALTER TABLE Employee ADD salary DECIMAL(10, 2);  SET SQL\_SAFE\_UPDATES = 0; UPDATE Employee  SET salary = salary \* 1.10  WHERE EmployeeID IN (  SELECT EmployeeID   FROM Department   WHERE Department\_Name = 'IT' );  SET SQL\_SAFE\_UPDATES = 1; |
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