**LAB 2**

# Q#) Create sql query of all above denormalization techniques by using HR or student\_performance schema

# DENORMALIZATION TECHNIQUES USING student\_performance SCHEMA:

CREATE TABLE Denormalized\_Student\_Performance AS

SELECT SP.Sid, SP.Course\_code, SP.Marks, SC.Campus\_id, CD.Campus, CD.Degree

FROM Student\_Performance SP

JOIN Student\_Campus SC ON SP.Sid = SC.Sid

JOIN Campus\_degree CD ON SC.Campus\_id = CD.Campus\_id;

# COLLAPSING:

CREATE TABLE Denormalized\_Employee\_Manager AS

SELECT e.employee\_id, e.first\_name, e.last\_name, e.salary \* 12 AS annual\_salary, m.employee\_id AS manager\_id, m.first\_name AS manager\_first\_name, m.last\_name AS manager\_last\_name FROM employees e

LEFT JOIN employees m ON e.manager\_id = m.employee\_id;

# HORIZONTAL SPLITTING:

CREATE TABLE Employees\_Hired\_Before AS SELECT \* FROM employees

WHERE hire\_date < TO\_DATE('01-JAN-2000', 'DD-MON-YYYY');

# VERTICAL SPLITTING:

CREATE TABLE Employee\_Basic\_Info AS

SELECT employee\_id, first\_name, last\_name, email, hire\_date FROM employees;