**1) Write Query to showcase one Trainer and one Module relationship.**

CREATE TABLE Trainer\_Info( Trainer\_Id INT(3) PRIMARY KEY, Trainer\_Name VARCHAR(30) NOT NULL, Trainer\_Email VARCHAR(50) NOT NULL);

INSERT INTO Trainer\_Info ( Trainer\_Id, Trainer\_Name, Trainer\_Email) VALUES (101, ‘HARI’, ’hari@gmail.com’);

INSERT INTO Trainer\_Info ( Trainer\_Id, Trainer\_Name, Trainer\_Email) VALUES (102, ‘KEERTHI’, keerthi@gmail.com’);

INSERT INTO Trainer\_Info ( Trainer\_Id, Trainer\_Name, Trainer\_Email) VALUES (103, ‘SHARAN’, ‘sharan@gmail.com’);

CREATE TABLE Module\_Info( Module\_Id INT(5) PRIMARY KEY,Module\_Name VARCHAR(25) NOT NULL, Trainer\_Id INT(3) NOT NULL UNIQUE, FOREIGN KEY(Trainer\_Id) REFERENCES Trainer\_Info(Trainer\_Id));

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50001, ‘M1’, 102);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50003, ‘M2’, 103);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50004, ‘M3’, 101);

**2) Write Query to showcase one Trainer and Many Module relationship.**

CREATE TABLE Trainer\_Info( Trainer\_Id INT(3) PRIMARY KEY, Trainer\_Name VARCHAR(30) NOT NULL, Trainer\_Email VARCHAR(50) NOT NULL);

INSERT INTO Trainer\_Info ( Trainer\_Id, Trainer\_Name, Trainer\_Email) VALUES (101, ‘HARI’, ’hari@gmail.com’);

INSERT INTO Trainer\_Info ( Trainer\_Id, Trainer\_Name, Trainer\_Email) VALUES (102, ‘KEERTHI’, keerthi@gmail.com’);

INSERT INTO Trainer\_Info ( Trainer\_Id, Trainer\_Name, Trainer\_Email) VALUES (103, ‘SHARAN’, ‘sharan@gmail.com’);

CREATE TABLE Module\_Info( Module\_Id INT(5) PRIMARY KEY,Module\_Name VARCHAR(25) NOT NULL, Trainer\_Id INT(3) NOT NULL, FOREIGN KEY(Trainer\_Id) REFERENCES Trainer\_Info(Trainer\_Id));

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50001, ‘M1’, 102);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50003, ‘M2’, 103);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50004, ‘M3’, 101);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50002, ‘M3’, 101);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50005, ‘M3’, 102);

**3) Write Query to showcase many Trainer and Many Module relationship.**

CREATE TABLE Trainer\_Info( Trainer\_Id INT(3) PRIMARY KEY, Trainer\_Name VARCHAR(30) NOT NULL, Trainer\_Email VARCHAR(50) NOT NULL);

INSERT INTO Trainer\_Info ( Trainer\_Id, Trainer\_Name, Trainer\_Email) VALUES (101, ‘HARI’, ’hari@gmail.com’);

INSERT INTO Trainer\_Info ( Trainer\_Id, Trainer\_Name, Trainer\_Email) VALUES (102, ‘KEERTHI’, keerthi@gmail.com’);

INSERT INTO Trainer\_Info ( Trainer\_Id, Trainer\_Name, Trainer\_Email) VALUES (103, ‘SHARAN’, ‘sharan@gmail.com’);

CREATE TABLE Module\_Info( Module\_Id INT(5) PRIMARY KEY,Module\_Name VARCHAR(25) NOT NULL);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50001, ‘M1’);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50003, ‘M2’);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50004, ‘M3’);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50002, ‘M4’);

INSERT INTO Module\_Info ( Module\_Id, Module\_Name, Trainer\_Id) VALUES ( 50005, ‘M5’);

CREATE TABLE Tranier\_To\_Module ( Trainer\_Id INT(3), Module\_Id INT(5), FOREIGN KEY (Trainer\_Id) REFERENCES Trainer\_Info(Trainer\_Id), FOREIGN KEY (Module\_Id) REFERENCES Module\_Info(Module\_Id), UNIQUE( Trainer\_Id, Module\_Id));

INSERT INTO Trainer\_To\_Module ( Trainer\_Id, Module\_Id) VALUES (101, 50001);

INSERT INTO Trainer\_To\_Module ( Trainer\_Id, Module\_Id) VALUES (101, 50003);

INSERT INTO Trainer\_To\_Module ( Trainer\_Id, Module\_Id) VALUES (102, 50005);

INSERT INTO Trainer\_To\_Module ( Trainer\_Id, Module\_Id) VALUES (103, 50003);

INSERT INTO Trainer\_To\_Module ( Trainer\_Id, Module\_Id) VALUES (103, 50002);

INSERT INTO Trainer\_To\_Module ( Trainer\_Id, Module\_Id) VALUES (102, 50004);