**MODULE: 5 (Database)**

1. Create Table Name : Student and Exam

• CREATE DATABASE S30;

★ Student Table

• CREATE TABLE STUDENT (Rollno INT PRIMARY KEY AUTO\_INCREMENT NOT NULL,NAME VARCHAR(20),Branch VARCHAR(20));

• INSERT INTO Student (Rollno,NAME,Branch)

VALUES(1,'jay','Computer Science'),

(2,'Suhani','Electronic and Com'),

(3,'Kriti','Electronic and Com');

★ Exam Table

• Create table exam(Rollno int not null, S\_coad varchar(20),Mark int,P\_coad varchar(20),Foreign key (Rollno) REFERENCES student(Rollno) ) ;

• INSERT INTO exam(Rollno,S\_coad,Mark,P\_coad)

VALUE(1,'CS11',50,'CS'),

(1,'CS12',60,'CS'),

(2,'EC101',66,'EC'),

(2,'EC102',70,'EC'),

(3,'EC101',45,'EC'),

(3,'EC102',50,'EC');

1. Create table given below ?

★ Details Table

• CREATE TABLE Details (First\_Name VARCHAR(20),Last\_Name VARCHAR(20),Address VARCHAR (30),City VARCHAR(20),Age int);

• INSERT INTO details(First\_Name,Last\_Name,Address,City,Age)

VALUES('Mickey','Mouse','123 Fantasy Way','Anaheim',73),

('Bat','Man','321 Cavern Ave','Gotham',54),

('Wonder','Woman','987 Truth Way','Paradise',39),

('Donald','Duck','555 Quack Street','Mallard',65),

('Bugs','Bunny','567 Carrot Street','Rascal',58),

('Wiley','Coyote','999 Acme Way','Canyon',61),

('Cat','Woman','234 Purrfect street','Hairball',32),

('Tweety','Bird','543','Itotltaw',28);

1. Create table given below: Employee and Incentive ?

★Employee Table

• CREATE TABLE Employee(Employee\_ID INT PRIMARY KEY AUTO\_INCREMENT NOT NULL, First\_name VARCHAR(20),Last\_name VARCHAR(20),Salary INT, Joining\_date VARCHAR(40),Department VARCHAR(20) );

• INSERT INTO employee (Employee\_ID,First\_name,Last\_name,Salary,Joining\_date,Department)

VALUES

(1,'John','Abraham',1000000 ,'01-JAN-13 12.00.00 AM','Banking'),

(2,'Michael','Clarke',800000 ,'01-JAN-13 12.00.00 AM','Insurance'),

(3,'Roy','Thomas',700000 ,'01-FEB-13 12.00.00 AM','Banking'),

(4,'Tom','Jose',600000 ,'01-FEB-13 12.00.00 AM','Insurance'),

(5,'Jerry','Pinto', 650000,'01-FEB-13 12.00.00 AM','Insurance'),

(6,'Philip','Mathew', 750000,'01-JAN-13 12.00.00 AM','Services'),

(7,'TestName1','123',650000 ,'01-JAN-13 12.00.00 AM','Services'),

(8,'TestName2','Lname%', 600000,'01-FEB-13 12.00.00 AM','Insurance');

★ Incentive

• CREATE TABLE Incentive (Employee\_ref\_id INT AUTO\_INCREMENT NOT NULL,Incentive\_date VARCHAR(20),Incentive\_amount INT, FOREIGN KEY(Employee\_ref\_id) REFERENCES employee(Employee\_Id));

• INSERT INTO incentive(Employee\_ref\_id,Incentive\_date,Incentive\_amount)

VALUES (1,'01-FEB-13',5000),

(2,'01-FEB-13',3000),

(3,'01-FEB-13',4000),

(1,'01-JAN-13',4500),

(2,'01-JAN-13',3500);

★ Que and Ans...

1. Get First\_Name from employee table using Tom name “Employee Name” ?

→ SELECT First\_Name As Tom FROM Employee;

1. Get FIRST\_NAME, Joining Date, and Salary from employee table ?

→ SELECT First\_Name, Joining\_date, Salary FROM Employee;

1. Get all employee details from the employee table order by First\_Name Ascending and Salary descending?

→ SELECT \* FROM employee order by First\_name ASC,Salary DESC;

1. Get employee details from employee table whose first name contains ‘J’ ?

→ SELECT \* FROM employee WHERE First\_name LIKE ' j % ';

1. Select first\_name, incentive amount from employee and incentives table for those employees who have incentives and incentive amount greater than 3000 ?

→SELECT employee.First\_name, incentive.Incentive\_amountFROM employeeINNER JOIN Incentive ON employee.Employee\_id = incentive.Employee\_ref\_idWHERE incentive.Incentive\_amount > 3000;

g) Create After Insert trigger on Employee table which insert records in view table ?

→ CREATE TABLE Employee\_Trigger (Id INT, First\_Name VARCHAR(20), Last\_Name VARCHAR(20), Table\_Salary INT, Join\_Date DATETIME, Department VARCHAR(20), Fetch\_time TIMESTAMP, Action VARCHAR(20));

→ CREATE TRIGGER Trigger\_ins

AFTER INSERT ON employee

FOR EACH ROW

INSERT INTO employee\_trigger(Id, First\_Name, Last\_Name, Table\_Salary, Join\_Date, Department, Action)

VALUES(NEW.Employee\_id, NEW.First\_Name, NEW.Last\_Name, NEW.Salary, NEW.Joining\_date, NEW.Department,"Data Insert !!");

4. Create table given below: Salesperson and Customer ?

★ SALSEPERSON

• CREATE TABLE SALSEPERSON (SNo INT PRIMARY KEY AUTO\_INCREMENT NOT NULL,SNAME VARCHAR(20),CITY VARCHAR(20) ,COMM INT );

• INSERT INTO salseperson(Sno,SNAME,CITY,COMM)

VALUES(1001,'Peel','London',.12),

(1002,'Serres','San Jose',.13),

(1004,'Motika','London',.11),

(1007,'Rafkin','Barcelona',.15),

(1003,'Axelrod','New York',.1);

★ Customer

• CREATE TABLE Customer (CNM INT PRIMARY KEY AUTO\_INCREMENT NOT NULL,CNAME VARCHAR(20),CITY VARCHAR(20) ,RATING INT,SNo INT );

• INSERT INTO customer(CNM,CNAME,CITY,RATING,SNo )

VALUES (201,'Hoffman','London',100,1001),

(202,'Giovanne','Roe',200,1003),

(203,'Liu','San Jose',300,1002),

(204,'Grass','Barcelona',100,1002),

(206,'Clemens','London',300,1007),

(207,'Pereira','Roe',100,1004);

a) All orders for more than $1000 ?

→ SELECT\*FROM salesperson WHERE sno>1000;

b) Names and cities of all salespeople in London with commission above 0.12 ?

→ SELECT\*FROM salseperson WHERE CITY="London" AND COMM>.12 ;

c) All salespeople either in Barcelona or in London ?

→ SELECT\*FROM salseperson WHERE CITY="London" OR CITY="Barcelona";

d) All salespeople with commission between 0.10 and 0.12. (Boundary values should be excluded) ?

→ SELECT \* FROM salseperson WHERE .10< Comm AND Comm <.12;

e) All customers excluding those with rating <= 100 unless they are located in Rome ?

→ SELECT \*FROM customer WHERE (RATING > 100 OR CITY = 'Roe');