MODULE : 5 (DATABASE)

TASK

1. Create Table Name : Student and Exam QUERY:

use assignment;

create table student_1(roll_no int primary key auto_increment,name varchar(20),branch varchar(30));

insert into student_1(name,branch) values("jay","computer science"),("suhani","electronic and com"),("kriti","electronic and com");

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use assignment;

create table exam_1(roll_no int not null,foreign key(roll_no) references student_1(roll_no),scode varchar(20),marks int(100),p_code varchar(20));

insert into exam_1(roll_no,scode,marks,p_code)
values(1,"cs11",50,"cs"),(1,"cs12",60,"cs"),(2,"ec101",66,"ec"),(2,"ec102",70,"ec"),(3,"ec101",45,"ec"),(3,"ec102",50,"ec");

2. Create table given below

QUERY:

use assignment;
create table table_2(firstName varchar(20) not null,lastName varchar(20) not null,address varchar(25) not null,city varchar(15) not null,age int(5) not null);

insert into table_2(firstName,lastName,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",56),("Bugs","Bunny","567 Carrot Street","Rascal",58),("Wiley","Coyote","999 Acme Way","Canyon",61),("Cat","Woman","234 Purrfect Street","Hairball",32),("Tweety","Bird","543","Itotlow",28);

3.Table Name: Employee

QUERY:

use assignment;

```
create table emp_3(employee_id int auto_increment primary key ,first_name varchar(15) not null,last_name varchar(15) not null,salary int(10) not null,joining_date datetime not null,department varchar(20));

insert into emp_3(first_name,last_name,salary,joining_date,department)values('John','Abraham',10000000,'2013-1-01 12:00:00 ','Banking'),('Michael','Clarke',800000,'2013-1-01 12:00:00 ','Insurance'),('Roy','Thomes',700000,'2013-2-01 12:00:00 ','Banking'),('Tom','Jose',600000,'2013-2-01 12:00:00 ','Insurance'),('Jerry','Pinto',650000,'2013-2-01 12:00:00 ','Insurance'),('Philip','Mathew',750000,'2013-1-01 12:00:00 ','Service'),('TestName1','123',650000,'2013-1-01 12:00:00 ','Service'),('TestName2','Lname%',600000,'2013-2-01 12:00:00 ','Insurance');
```

Table Name: Incentive QUERY:

```
use assignment;

create table inc_3(employee_ref_id int not null,incentive_date date not null,incentive_amount int(10));

insert into inc_3 (employee_ref_id,incentive_date,incentive_amount)values(1,'2013-02-01',5000),(2,'2013-02-01',3000),(3,'2013-02-01',4000),(1,'2013-01-01',4500),(2,'2013-01-01',3500);
```

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a. **Get First_Name from employee table using Tom name "Employee Name" .**

```
SELECT first_name
FROM emp_3
WHERE first_name = 'Tom';
```

b. **Get FIRST_NAME, Joining Date, and Salary from employee table.**

```
SELECT first_name, joining_date, salary
FROM emp_3;
```

c. **Get all employee details from the employee table order by First_Name Ascending and Salary descending?**

```
SELECT *
FROM emp_3
ORDER BY first_name ASC, salary DESC;
```

d. **Get employee details from employee table whose first name contains 'J'.**

```
select * from emp_3 where first_name like '%j';
```

e. **Get department wise maximum salary from employee table order by salary ascending?**

```
select department,MAX(salary) as max_salary from emp_3 group by department order by max_salary asc;
```

f. **Select first_name, incentive amount from employee and incentives table for those employees who have incentives and incentive amount greater than 3000**

```
select
```

emp_3.first_name,inc_3.incentive_amount from emp_3 join inc_3 on emp_3.employee_id=inc_3.employee_ref_id where inc_3.incentive_amount>3000;

g. **Create After Insert trigger on Employee table which insert records in view table** create table viewtable(employee_id int auto_increment primary key ,first_name varchar(15) not null,last_name varchar(15) not null,salary int(10) not null,joining_date datetime not null,department varchar(20));
create trigger emp_3_insert_trigger after insert on viewtable for each row insert into emp_3(first_name,last_name,salary,joining_date,department)values ('John','Abraham',10000000,'2013-1-01 12:00:00 ','Banking');

4.Table Name: Salesperson

QUERY:

create table sp_4(sno int auto_increment not null primary key,sname varchar(15) not null,city varchar(20) not null,comm float(5) not null);

insert into sp_4(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);

Table Name: Customer

QUERY:

create table custometr_4(cnm int(5) primary key

not null ,cname varchar(15) not null,city varchar(15) not null,rating int(5) not null,sno int(5) ,foreign key(sno) references sp_4(sno));

insert into custometr_4(cnm,cname,city,rating,sno)values(201,"hoffman","londan",100,1001),(202,"giovanne","roe",200,1003),(203,"liu","san jose",300,1002),(204,"grass","barcelona",100,1002),(206,"clemens","londan",300,1007),(207,"pereira","roe",100,1004);

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a. All orders for more than $1000.

Select * from custometr_4 where order>=1000;

b. Names and cities of all salespeople in London with commission above 0.12 select

sname,city,comm from sp_4 where (city='londan' and comm>'0.12');

c. All salespeople either in Barcelona or in London select * from sp_4 where(

city='londan' or city='barcelona');

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

Select * from from sp_4 where comm>0.10 and comm<0.12;

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

* from custometr_4 where not (rating <=100 and city ='rome');