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Semester:- 4th
Section:- B
Batch:- I

Date:- 02.06.2021
Time:- 1:45 pm to 4:00pm

DBMS - LAB - Test - I

Q. Lab Test Assignment - 3

Consider the following database for a pizza Database information. The Requirement is Pizza stores are maintained and stored at a particular Price. Each Pizza is having a quality Rating like good, very good, excellent etc. Each store can sell multiple pizzas and each pizza can be sold by multiple stores. You can add more tuples to the table to answer queries.

(i) Create the above tables properly by specifying the primary keys and foreign keys.

(ii) Enter at least five tuples for each relation.

(iii) Find the names of all stores that sell both veggie and cheese pizzas.

(iv) Find the name and phone numbers of all stores that sell good or excellent veggie pizza under 100$.

(v) Demonstrate how you update the price of a vegcheese pizza by 10%.

(vi) List the stores whose average price for pizza is higher than

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the overall average pizza price.

(vii) Create a view which contains (Pname, Total price, Avg price) for each pizza sold.

Ans. CREATE TABLE PIZZA(

```
    pid INT,
    pname VARCHAR(20),
    quality INT,
    ADDRESS VARCHAR(50),
    PRIMARY KEY(pid).
);
```

```
CREATE TABLE Store(
    sid INT,
    Sname VARCHAR(20),
    PHONE INT,
    quality rating VARCHAR(20),
    PRIMARY KEY(sid)
);
```

```
CREATE TABLE Sold by ( pid INT,
    sid INT,
    price float,
    primary key (pid, sid),
    foreign key (pid) REFERENCED pizza(pid)
    on delete cascade on update cascade,
    FOREIGN KEY (sid) REFERENCED STORE
    (sid) on delete cascade on update
    cascade).
);
```


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```
INSERT INTO Pizza VALUES('2', 'CHEESE', '10', 'VARANASI');
INSERT INTO Pizza VALUES('3', 'PANEER', '9', 'PATNA');
INSERT INTO Pizza VALUES('4', 'SAUCE', '8', 'BALLIA');
INSERT INTO PIZZA VALUES('5', 'LARGE', '7', 'GUJARAT');
INSERT INTO PIZZA VALUES('6', 'VEGGIE', '6', 'LADAKH');

INSERT INTO STORE VALUES('100', 'PIZZA HUT', 998599999,
                         'EXCELLENT');
INSERT INTO STORE VALUES('101', 'DOMINOES', 88888888,
                         'GOOD');
INSERT INTO STORE VALUES('102', 'GREAT', 77777777777,
                         'GREAT');
INSERT INTO STORE VALUES('103', 'HOT PIZZA', '66666 66666',
                         'EXCELLENT');
INSERT INTO STORE VALUES('104', 'COOL PIZZA', '5555 55555',
                         'GOOD');

INSERT INTO SOLD by VALUES('5', '102', 1500.99);
INSERT INTO SOLD by VALUES('2', '103', 999.99);
INSERT INTO SOLD by VALUES('3', '100', 50.5);
INSERT INTO SOLD by VALUES('4', '104', 99.99);
INSERT INTO SOLD by VALUES('6', '101', 20.32);
```


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(iii) SELECT distinct S.Sname FROM store S, soldby Sb, Pizza P where Sb. Pid = P.Pid AND Sb.sid = S.sid and Sb.pid in (Select p1.Pid from Pizza p1 where p1.Pname = "veggie" and p1.Pname = "cheese");

(iv) SELECT distinct s.Sname, S.Phone from store .S, soldby Sb where Sb.Sid = S.sid group by Sb.Price < 100 having S.quality rating = "good" or s.Squality rating = 'excellent";

(v) UPDATE soldby SET price = price * 1.1 where pid = (Select pid from pizza where pname = "veg cheese");

(vi) SELECT AVG (soldby. price) AS "Average Price",
store.Sname AS "store"
FROM store, soldby
WHERE store.sid = soldby.sid.
GROUP BY store.Sname.
HAVING AVG (soldby. price) > (SELECT AVG(price)
FROM soldby);

(vii) CREATE VIEW soldpizza (Pname, Totalprice, Avg price)
AS SELECT p1.pname, sum (Sb.price), avg (Sb.price)
FROM pizza p1, soldby Sb where sb.pid = p1.pid
GROUP by P.Pname;

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To display all the tables created we use :-

```
SELECT * FROM PIZZA ;

SELECT * FROM STORE ;

SELECT * FROM Sold by ;
```

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