

Name: HRITIK SINGH

USN: 1BM19CS063.

Semester: 4th

Section: B

Batch: I

Date: 02.06.2021

Time: 1:45 pm to 4:00 pm

DBMS - LAB - Test - I

G. 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 veggie 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),
quantity 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).

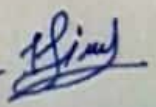
);

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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', 'PIZZAHUT', 998599999, 'EXCELLENT');
INSERT	INTO	STORE	VALUES('101', 'DOMINOS', 888888888, 'GOOD');
INSERT	INTO	STORE	VALUES('102', 'PIZZA 7777777777', 'GREAT');
INSERT	INTO	STORE	VALUES('103', 'HOT PIZZA', 6666666666, 'EXCELLENT');
INSERT	INTO	STORE	VALUES('104', 'COOL PIZZA', 5555555555, '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', 50.8);
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 = "vegcheese" and p1.pname = "cheese");

(iv) SELECT distinct s.sname, s.phone from store S, soldby sb where
 sb.sid = S.sid group by sb.pname < 100 having S.quality rating = "good"
 or S.quality rating = "excellent";

(v) UPDATE soldby SET price = price * 1.1 where pid = (select pid from
 pizza where pname = "vegcheese");

(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, Total price, 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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Signature: Shikhar

To display all the tables created we use:-

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SELECT * FROM PIZZA ;

SELECT * FROM STORE ;

SELECT * FROM Sold by ;

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