

University of **Asia Pacific**

#### Database Systems Lab - CSE 212

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Section : B2

Project’s Name **: Farm Management System**

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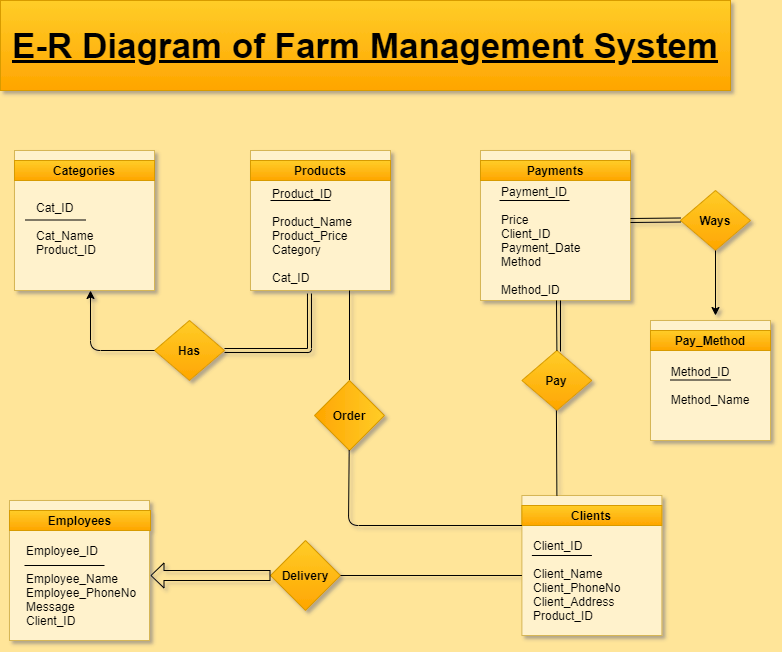
***Farm Management System***

**Project Objectives :**

*This project presents a farming management system that implements a conceptual framework for buying and selling the production system of agricultural products.*

*In our country, in this pandemic situation everyone is at risk of going out. For this we can see what products of a project are sitting at home. We can easily buy anything from this project, pay money from anywhere. And we can take fresh food very easily. By doing this, we can save a lot of time and ensure the safety for our health.*

**ER-Diagram :**



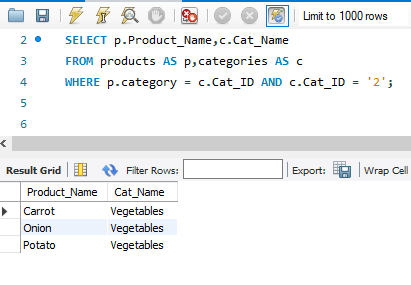
**Questions and Queries :**

**1. What kind of categories has in Product table :**

SELECT p.Product\_Name,c.Cat\_Name

FROM products AS p,categories AS c

WHERE p.category = c.Cat\_ID AND c.Cat\_ID = '2';

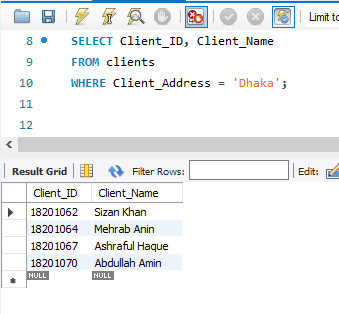


**2. Clients from same Address :**

SELECT Client\_ID, Client\_Name

FROM clients

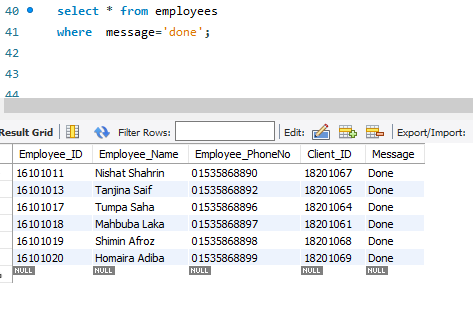
WHERE Client\_Address = 'Dhaka';



**3. Delivery status :**

select \* from employees

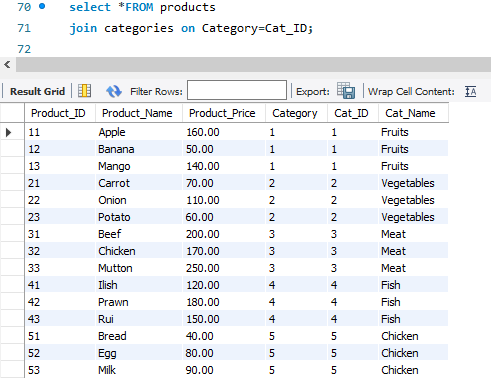
where message='done';



**4. Product details with categories :**

select \*FROM products

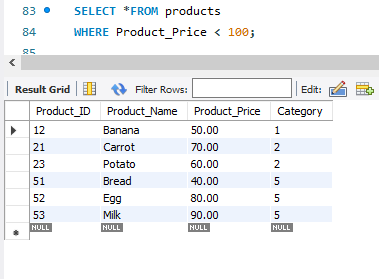
join categories on Category=Cat\_ID;



**5. Available products in a specific price :**

SELECT \*FROM products

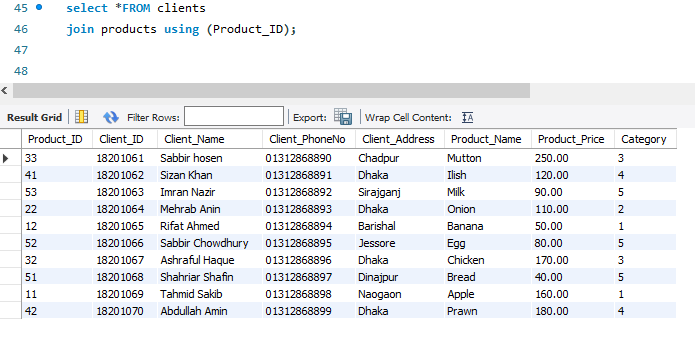
WHERE Product\_Price < 100;



**6. Joining Clients and Products table :**

select \*FROM clients

join products using (Product\_ID);

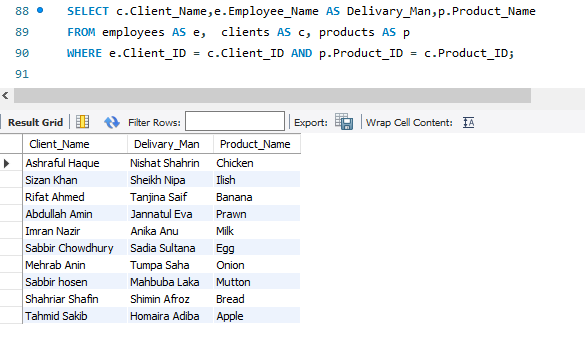


**7. Clients got the product from which Employee :**

SELECT c.Client\_Name,e.Employee\_Name AS Delivary\_Man,p.Product\_Name

FROM employees AS e, clients AS c, products AS p

WHERE e.Client\_ID = c.Client\_ID AND p.Product\_ID = c.Product\_ID;



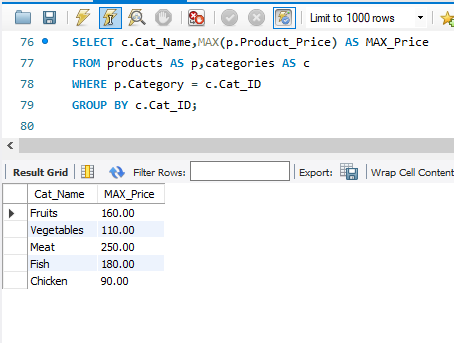
**8. Maximum price of each category :**

SELECT c.Cat\_Name,MAX(p.Product\_Price) AS MAX\_Price

FROM products AS p,categories AS c

WHERE p.Category = c.Cat\_ID

GROUP BY c.Cat\_ID;



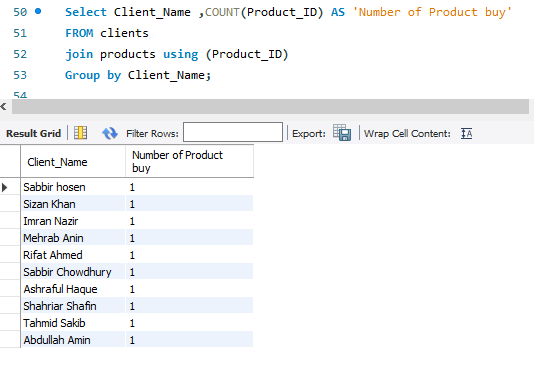
**9. How many products has been taken a client :**

Select Client\_Name ,COUNT(Product\_ID) AS 'Number of Product buy'

FROM clients

join products using (Product\_ID)

Group by Client\_Name;



**10.Which client ordered the product on a specific date :**

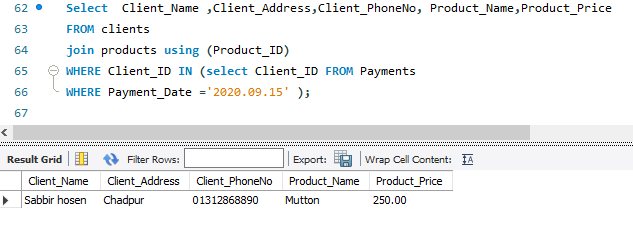
Select Client\_Name ,Client\_Address,Client\_PhoneNo, Product\_Name,Product\_Price

FROM clients

join products using (Product\_ID)

WHERE Client\_ID IN (select Client\_ID FROM Payments

WHERE Payment\_Date ='2020.09.15' );

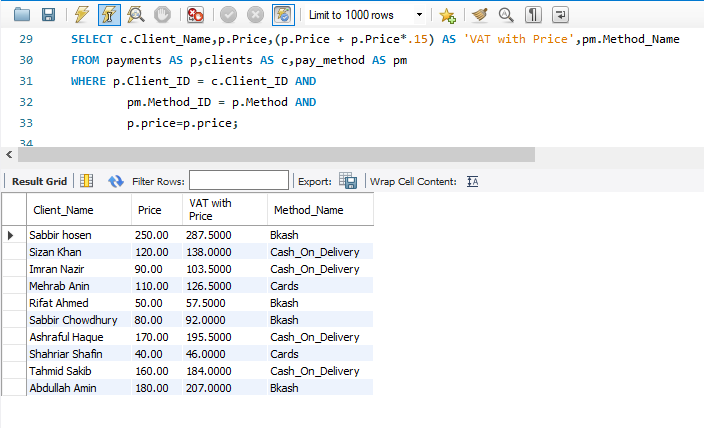


**11. Add vat with total price :**

SELECT c.Client\_Name,p.Price,(p.Price + p.Price\*.15) AS 'VAT with Price',pm.Method\_Name

FROM payments AS p,clients AS c,pay\_method AS pm

WHERE p.Client\_ID = c.Client\_ID AND pm.Method\_ID = p.Method AND p.price=p.price;



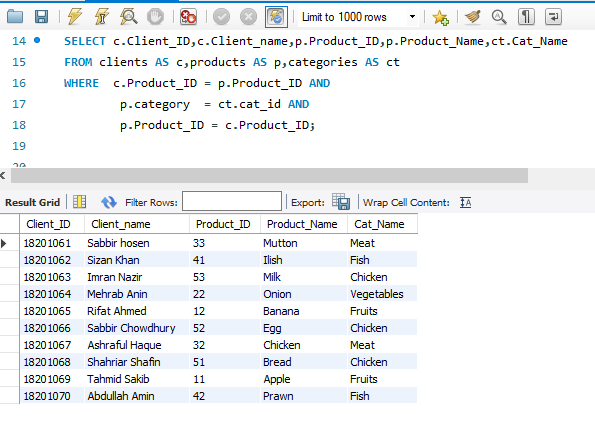
**12. Clients brought products from which category :**

SELECT c.Client\_ID,c.Client\_name,p.Product\_ID,p.Product\_Name,ct.Cat\_Name

FROM clients AS c,products AS p,categories AS ct

WHERE c.Product\_ID = p.Product\_ID AND p.category = ct.cat\_id AND

p.Product\_ID = c.Product\_ID;



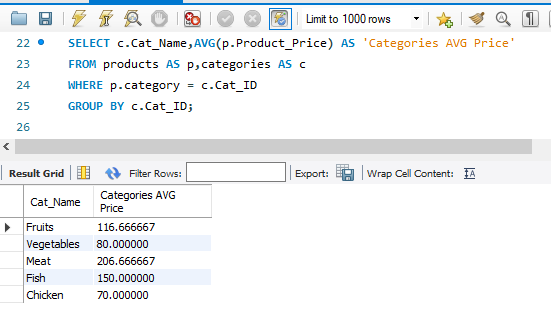
**13. Average price of each category :**

SELECT c.Cat\_Name,AVG(p.Product\_Price) AS 'Categories AVG Price'

FROM products AS p,categories AS c

WHERE p.category = c.Cat\_ID

GROUP BY c.Cat\_ID;



**14. Which client pay in which Method :**

SELECT c.Client\_Name,p.Product\_Name,pay.Price,pm.Method\_Name

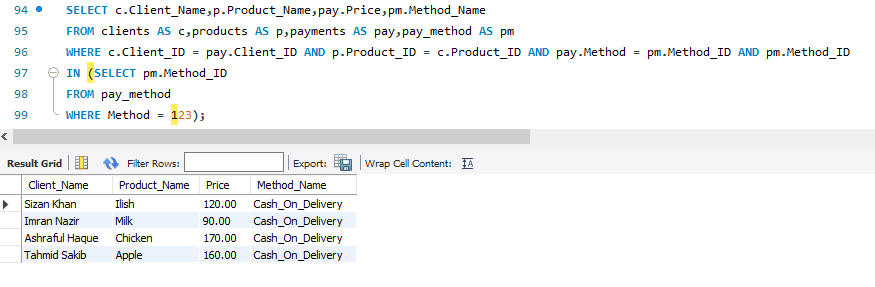
FROM clients AS c,products AS p,payments AS pay,pay\_method AS pm

WHERE c.Client\_ID = pay.Client\_ID AND p.Product\_ID = c.Product\_ID AND pay.Method = pm.Method\_ID AND pm.Method\_ID

IN (SELECT pm.Method\_ID

FROM pay\_method

WHERE Method = 123);



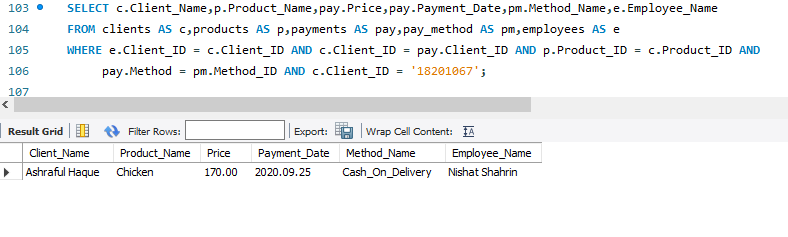
**15. Full information of a single client :**

SELECT c.Client\_Name,p.Product\_Name,pay.Price,pay.Payment\_Date,pm.Method\_Name,e.Employee\_Name

FROM clients AS c,products AS p,payments AS pay,pay\_method AS pm,employees AS e

WHERE e.Client\_ID = c.Client\_ID AND c.Client\_ID = pay.Client\_ID AND p.Product\_ID = c.Product\_ID AND

pay.Method = pm.Method\_ID AND c.Client\_ID = '18201067';



**Conclusion :**

*Now a days, we know that online marketing system is making a large position in our economic status . But the problem is, when we want to buy a product, we don't really understand what type of products or categories are there, is it hygienic or not,what is the price and how much we can buy. In our daily life, we need some essential products or food. But sometimes, these things were not hygienic outside.That’s why this type of management projects are become helpful for our daily life. All the information can be seen by the buyers. So they can easily buy any products . Also it can save our time.*