



# University of Central Punjab

(Incorporated by Ordinance No. XXIV of 2002 promulgated by Government of the Punjab)  
FACULTY OF INFORMATION TECHNOLOGY

## Introduction to Database Systems

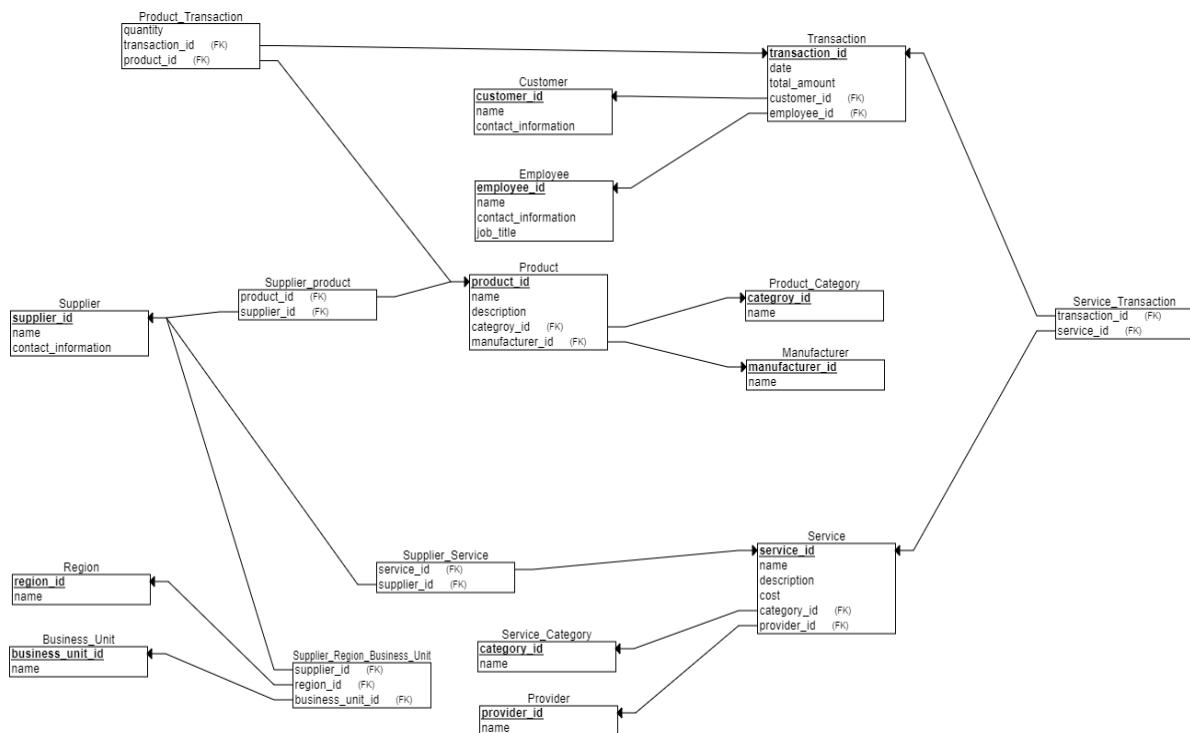
### Assignment 2

**Total Marks: 25**

#### Submission:

1. Submit the Hardcopy of your assignment.
2. The deadline for hardcopy is **Tuesday May 2, 2023** before lab.
3. No late and retake submissions will be entertained, otherwise there will be plenty of deduction in marks.

Below is the Relational Schema of a Manufacturer Company.



Perform the following queries on above schema.

1. Create a new table called "Order\_Item" with columns "order\_item\_id" (primary key) and "quantity".

2. Modify the table “Order\_Item” by adding the columns “transaction\_id” (foreign key referencing Transaction.transaction\_id), “product\_id” (foreign key referencing Product.product\_id), “service\_id” (foreign key referencing Service.service\_id).
3. Add a new column called “unit\_price” to the Products table.
4. Create a new table called “Product\_Review” with columns “review\_id” (primary key), “product\_id” (foreign key referencing Product.product\_id), “customer\_id” (foreign key referencing Customer.customer\_id), “rating” and “review\_text”.
5. Rename the “Supplier\_Product” table to “Product\_Supplier”.
6. Change the data type of the “date” column in Transaction table from DATE to DATETIME.
7. Set the default value of the “rating” column in Product\_Review table to 0.
8. Insert a new record into the Employee table with employee\_id = 456, name = “Jane Doe”, contact\_information = “456 Elm St, Anytown, USA”, and job\_title = “Sales Manager”.
9. Update the “unit\_price” of all products in the **Electronics** category to increase by 10%.
10. Delete all reviews have “rating” less than 3.
11. Delete all the products with a “unit\_price” less than **\$5**.
12. Update the “total\_amount” of all transactions by adding 5% discount for customers with a “customer\_id” of **3**.
13. Delete all rows from “Service\_Transaction” table where the “service\_id” is not in the **House Keeping** or **Maintenance** categories.
14. Retrieve the names and total transaction amounts for all the transactions in the month of January.
15. Retrieve the names and transaction dates of all transactions between January 1, 2022 and March 31, 2022.
16. Retrieve the names and descriptions of all products that have been reviewed by customers with a rating of 3 or higher.
17. Add a new column “in\_stock” (BOOLEAN) to the product table.
18. Retrieve all data of service provided by **ABC Services**.
19. Retrieve the information of the products that have not been sold in the past month and currently in stock.
20. Retrieve the names and costs of all the services that have been provided by provides in the “House Keeping” and **Electronics** categories.
21. Retrieve the names and job titles of all employees who were hired in 2022.
22. Retrieve the names and job titles of all those employees who worked on transactions involving products in the **Home Goods** Category order by names.
23. Retrieve distinct customer id and customer name who have made transactions in April 2022 order by customer id.
24. Retrieve the names and contact information of all the suppliers who supply products that are currently out of stock.
25. Retrieve the information of all products and services that cost more than **\$500**.
26. Drop the “Product\_Review” table from the database.