Computer Science Department

University of Computer & Emerging Sciences (FAST-NU)

HOME WORK ASSIGNMENT COVER SHEET

COURSE TITLE	DATABASE SYSTEMS	COURSE CODE	CS219

INSTRUCTOR ~~Teaching Team~~ TYPE ☐ ☑ (Please tick)

Indiv. Group

ASSIGNMENT NO   HW-3 (Class)

ASSIGNMENT   Completing Schema of Purchase and Sales

HAND OUT DATE   28-April-2021   DUE DATE   08-May-2021 (6PM)

ESTIMATE TIME   8 Hours

ASSESSMENT CRITERIA (or attached)	% Mark
This HW includes the following tasks Scenario Schema's tables with Keys and Constraints Sample datasets Submission: Only soft copy in pdf is required. Any mistake or missing material will lead to the reduction of 5% marks. **Group of max 3 students is allowed, individual work and group of 2 is acceptable in extreme situations and with <u>prior written (by email) permission of theory course teacher</u>. Such permission should be sought at least <u>5 days before the deadline</u> of the assignment.** **Any type of plagiarism will lead to 0% marks of both/all parties.** **Cross Section Groups are not allowed.**	

TO BE COMPLETED BY STUDENT (TEAM LEAD)   GROUP MEMBERS ID

NAME _____

ID NO _____ ~~Section#~~

Time Taken

DECLARATION: I/We declare that this Coursework is my/our group's own work

SIGNATURES (All members)

ID	Sec#
ID	Sec#
ID	Sec#

GRADE/ MARK AWARDED ☐   COMMENTS _____

_____

INSTRUCTOR'S SIGNATURE _____ DATE _____

Brief:

In a Sales Enterprise, following tables are used in a schema

Supplier(Supp#, SName, Address, City, Telno)
SuppliedItems(Supp#, Item#, Qty, Price)
Item(Item#, Name, Price, TotalQty, Category)

Any supplier is supplying many items to an Enterprise. Same Item is supplied by different supplier with different prices. Additionally, the enterprise is selling items to customers through their employees with job title salesman. Some items can be purchased on POS (point of sales counters) and some are shipped via mail-post.

Based on the above scenario, following deliverables are required in the form of a clearly written report.

1) you need to add more tables with appropriate columns, keys and constraints in above schema.
2) Appropriate Dataset is also required with all possible conditions.
3) Your solution should provide how to calculate profit by using SQL statement(s), applied on your final schema tables.

Hint: You need to study class lectures related to Relational Data Model to solve this assignment. For your convenience, the slides have again been provided.

Individual work or group of 2 is acceptable in extreme situations and with prior written (by email) permission of theory course teacher. Such permission should be sought at least 5 days before the deadline of the assignment. The reply from the course teacher must be placed as a screenshot in the report to show the permission.