



UNIVERSITY SARGODHA
**Department of Computer Science & Information
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CMP-370: Database Systems

ASSIGNMENT # 2 : Introduction to ERD

The objective of this assignment is to make students familiar with the ERD Diagrams..

Submission Format

1. Assignment can only be submitted in well-structured printed form
2. Preferably award extra marks if solved by applying some CASE tools.

Assignment Questions

Question 1 : Case Study 1

In petrol pump management system, a customer comes and chooses type of fuel. His vehicle is refueled according to quantity asked. Pumping machine generates a bill whose one copy is given to customer and one is kept in record. On the other hand, record of supply of fuel is maintained and updated by petrol pump manager as quantity of fuel reaches at petrol pump or it is sold to customers. A report is generated on daily basis, which shows daily sale and purchase separately. At the end of month, all expenses like electricity charges, employee's salary, and daily miscellaneous expenses are Recorded monthly profit and loss statement is generated by using sale, purchase and expenses recorded.

Question 2 : Case Study 2

In a courier management system, a customer reaches at courier shop and asks for dispatching of his goods. An attendee verifies his goods and allots an identification number to his goods. Along with this he calculates the amount, which will be charged from customer. After proper packing, a bill is generated whose one copy is given to customer and one copy is kept in record. All the goods received in a day are sorted out according to destination, which can be identified by unique id number allotted to each courier order. All courier orders along with their documents are sent to their appropriate destinations. Destination courier centers receive these orders and record their entries. All courier orders are dropped to their destination, and a signature is taken from each receiving person of courier order. This is recorded in the system, which automatically updates the record at base center from where these courier orders are initiated.

Question 3:

PC Associates is a large, multinational consulting corporation, which uses a number of PCs and software packages in the course of her work. PC Associates needs to maintain the following information about the PCs and software packages its employee uses to do their jobs. For each PC, the computer number, the computer model and manufacturer, and the type of microprocessor needed to be stored. Data for each employee also needed to be stored - such as the employee name, employee number, and phone number. Also for each PC, the inventory tag number, location, computer number and the number of the employee who owns the PC. For each software package, the package number, current cost, type, name and version needed to be stored. Also for each software package installed on a PC, the package number and cost, installation date and inventory tag number needed to be stored.

Question 4:

PC Associates is a large, multinational consulting corporation, which uses a number of PCs and software packages in the course of her work. PC Associates needs to maintain the following information about the PCs and software packages its employee uses to do their jobs. For each PC, the computer number, the computer model and manufacturer, and the type of microprocessor needed to be stored. Data for each employee also needed to be stored - such as the employee name, employee number, and phone number. Also for each PC, the inventory tag number, location, computer number and the number of the employee who owns the PC. For each software package, the package number, current cost, type, name and version needed to be stored. Also for each software package installed on a PC, the package number and cost, installation date and inventory tag number needed to be stored.

Submission Date: Monday 16 march, 2010

Time: 12:00 P.M

**VIOLATION OF DEADLINE MEANS
ZERO MARKS**