

## Database Lab Take Home Assignment - 4 (3 Questions, 100 Points)

Submission Dead Line: 18-Oct-2021 23:59 Hours

1. Construct a table with following details given below:

Product (**Pid**, Pname, Price, Category, Manufacturer)

Purchase (**ProdId**, **buyerName**, date, price)

**Pid**: is primary key for product table.

**ProdId**, **buyerName**: are Primary key for purchase table.

**ProdId**: in purchase table is foreign key referring to Pid of product table;

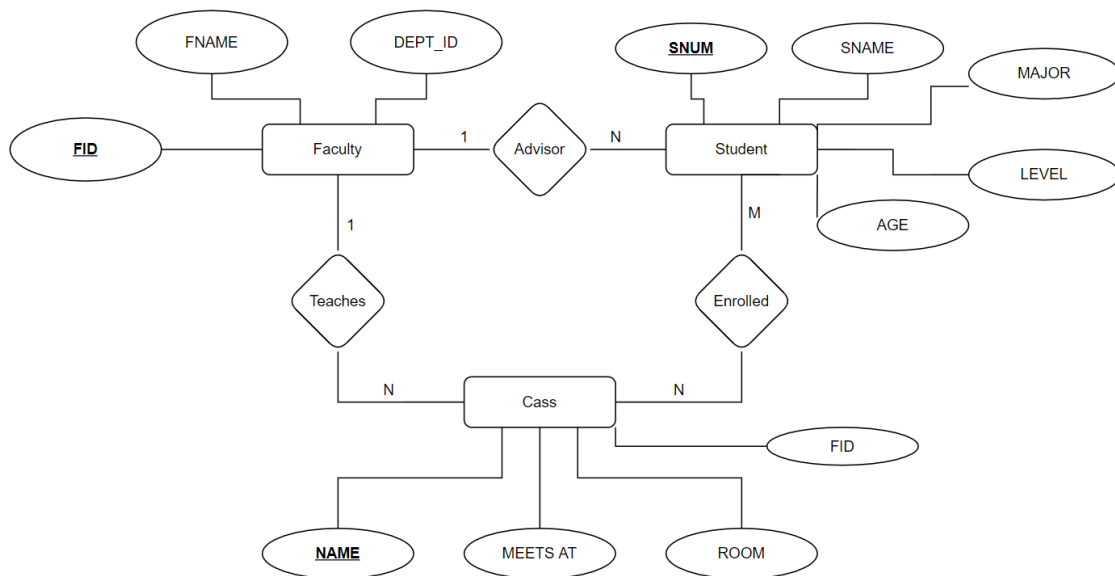
I. Write a stored procedures which outputs the date on which maximum number of products was purchased.

II. Write a stored procedure which returns the number of products by a given date.

III. Write a store procedure which takes prodId of a product as input and check the price and print 'GREATER THAN 100', 'EQUAL to 100' or 'LESS THAN 100' after comparing the price.

Stored procedure	Total marks
3	$3 \times 10 = 30$

## 2. Consider following ER Diagram.



I. Write a stored procedure which takes **student\_level** as input and return the average age of the students of the particular level.

II. Write a stored procedure which takes **faculty\_id** as input and return the list of all the students those are taught by faculty **faculty\_id**.

III. Write a stored procedure which return all the class having keyword "**ics**" in its name and those either meet in room R128 or having 3 or more students enrolled.

IV. Write a stored procedure which return the reduced age of oldest student by 20% who is either a mathematics major or enrolled in a course taught by Teacher id 1.

V. Write a stored procedure having IN and OUT parameter which take the room number as an IN parameter and write the count of all the classed held in a particular room into the OUT parameter.

Stored Procedure	Total Marks
5	5×10 = 50

**3.** Implement the following scenario using LOOPS in stored procedures. 20 Marks.

Procedure should take 2 IN parameter **start** and **end** and 2 OUT parameter **evensum** and **oddsum** and write the total sum of odd integers into the oddsum parameter and total sum of even integer into the even sum parameter.