

Indian Institute of Engineering Science and Technology, Shibpur

Computer Science & Technology

DBMS Laboratory (CS551) assignments

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ASSIGNMENT – 4

1. Accept an employee code from user. Find the name of employee from EMP table. If the employee is not existing then indicate it through a suitable message.
2. Write a PL/ SQL block to add row in EMP table. If employee code is duplicate/ dept code is not present in DEPT table then message is to be shown & row can not be added.
3. From the EMP table find the name of top 5 (according to basic salary) employees.
4. Accept a department code from the user. Delete all the employee rows with that department code. Show how many rows have been deleted.
5. Consider the following tables:

Table: ORDERMAST

Structure:

ORDER_NO CHAR(5) PRIMARY KEY

ORDER_DT DATE

Table: ORDERDETAILS

Structure:

ORDER_NO CHAR(5)

ITEM_NO CHAR(5)

QTY NUMBER

ORDER_NO + ITEM_NO IS Primary key

Table: DELIVERYMAST

Structure:

DELV_NO CHAR(5) Primary key

ORDER_NO CHAR(5)

DELV_DT DATE

Table: DELIVERY_DETAILS

Structure:

DELV_NO CHAR(5)

ITEM_NO CHAR(5)

QTY NUMBER DELV_NO + ITEM_NO IS Primary key

Write a PL/SQL block which accepts two dates & find the information of the pending delivery for the orders placed between the two dates supplied by the user. Note, an order can have request for multiple items. Against an order, multiple delivery with partial shipment is possible.

6. Assume a LEAVE table with emp_no, month, no_of_days. For each employee find the effective basic for the current month as per the formula given below: $\text{BASIC} - (\text{BASIC} * \text{no. Of leave days in the month}) / \text{No. Of days in that month}$.
7. Explore one of the open-source E-R diagram drawing tools to develop E-R diagram for the following problems. Feel free to extend the problem statement if you wish to cover more number of functionalities.
 - A) In an organization, employees are assigned to several projects based on their skill sets. Every project has limited number of employees and they perform in a specific role. Every project has fulltime Project-Manager to manage the overall activities of the project. Try to design an ER schema diagram for this application, stating any assumption you make.
 - B) A database is being constructed to keep track of the teams and games of a sport league. A team has a number of players, not all of whom participate in each game. It is desired to keep track of the players participating in each game for each team, the positions they played in that games, and the result of the games. Try to design an ER schema diagram for this application, stating any assumption you make. Choose your favourite sport (football, cricket ...)