Group -14
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Database Management Project

Title: Database for managing the warehouse part of an online business.

Scope of Database:
Our job is to manage the data regarding the storage and shipment of the goods across many warehouses.
We'll be dealing with the inflow and outflow of goods from suppliers to warehouses to customers.
But we won't be dealing with the data regarding how the goods arrives at the warehouse.

Supplier -> Warehouse -> customer
|---------- our scope --------|

Description/Requirements:

- There are many warehouses in many cities.
- There are many suppliers supplying items to the warehouses.
- An item can be supplied by many suppliers to different warehouses.
- A customer can order different items of different quantities.
- Payment can be made by either cash or online.
- Employees work at a particular warehouse, they can be either a worker, manager, driver etc.
- The delivery of an order is done by vehicles.
- It must store details about the following:
  - Warehouse – name, city, capacity, manager.
  - Supplier- id, name, number.
  - Employee – name, salary, number.
  - Item – type, cost, name.
  - Item type – name.
  - Transport – date, vehicle, driver.
  - vehicle – number plate.
  - Order – quantities of different items, order time, delivery time.
  - Payment – type, amount, status, account no.

Queries that the database system should be able to answer:

1. Find the ordered items which are in stock.
2. find the customers whose orders are in stock
3. Display the category names with their ordered quantities from all the orders placed.
4. show the number of warehouses present in each city.
5. List all the managers of different warehouses.
6. In which warehouses the employee count is below the average count.
7. List all the pending orders.
8. List the customer id with the highest number of orders placed.
9. Name the vehicle no/id which is having the highest number of orders to transport.
10. Give the most popular item from each category.
11. List all customer who came in contact with the given employee in last week.
12. List the average salary of all employees at each warehouse.

13. List the items ordered by a customer in chronological order.
14. List the suppliers in order of their popularity.
15. Calculate the average delivery time in each city.
16. Calculate the average number of items in a order.
17. List drivers ordered by their 'Bang for Buck'