

1. Customer(**Cust id : integer**, cust\_name: string)  
Item(**item id: integer**, item\_name: string, price: integer)  
Sales(**bill no: integer**, bill\_date: date, **cust\_id: integer**, **item\_id: integer**, qty\_sold: integer)

For the above schema, perform the following

1. Create the tables with the appropriate integrity constraints and insert around 5 records in each of the tables.
2. List all the bills for the current date with the customer names and item\_id.
3. List the details of the customer who have bought a product which has a price >200.
4. Give a count of how many products have been bought by each customer.
5. Give a list of products bought by a customer having cust\_id as 5.
6. List the item details which are sold as of today.

2. Student(**stud\_no: integer**, stud\_name: string, **class: string**)  
Class(**class: string**, **descrip: string**)  
Lab(**mach\_no: integer**, Lab\_no: integer, description: String)  
Allotment(**stud\_no: integer**, **mach\_no: integer**, day\_of\_week: string)

For the above schema, perform the following

- i. Create the tables with the appropriate integrity constraints and insert around 5 records in each of the tables.
- ii. List all the machine allotments with the student names, lab and machine numbers.
- iii. Display list of student who has not given any machine.
- iv. Give a count of how many machines have been allocated to the 'CSIT' class.
- v. Count for how many machines have been allocated in Lab\_no 1 for the day of the week as "Monday".

3. employee(**emp\_id : integer**, emp\_name: string)  
department(**dept\_id: integer**, dept\_name:string)  
paydetails(**emp\_id : integer**, **dept\_id: integer**, basic: integer, deductions: integer, additions: integer, DOJ: date)  
payroll(**emp\_id : integer**, pay\_date: date)

For the above schema, perform the following

- i. Create the tables with the appropriate integrity constraints and insert around 10 records in each of the tables.
- ii. List the employee details department wise.
- iii. List the details of employees whose basic salary is between 10,000 and 20,000.
- iv. Give a count of how many employees are working in each department.
- v. Give a names of the employees whose netsalary>10,000.
- vi. Create a trigger to performs an update operation on an employee table, and simultaneously create a new table that stores the old value of an employee details before updation.