VIDYA JYOTHI INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

II Year-II Sem

DBMS Lab

LIST OF EXPERIMENTS

1. **Database Schema for a customer-sale scenario**

Customer (**Cust id: integer,** cust_name: string)Item (**item_id: integer,** item_name: string, price: integer) Sale (**bill_no: integer,** bill_data: date, **cust_id: integer, item_id: integer**, qty_sold: integer)

For the above schema, perform the following—

a) Create the tables with the appropriate integrity constraints
b) Insert around 10 records in each of the tables
c) List all the bills for the current date with the customer names and item numbers
d) List the total Bill details with the quantity sold, price of the item and the final amount
e) List the details of the customer who have bought a product which has a price>200
f) Give a count of how many products have been bought by each customer
g) Give a list of products bought by a customer having cust_id as 5
h) List the item details which are sold as of today
i) Create a view which lists out the bill_no, bill_date, cust_id, item_id, price, qty_sold, amount
j) Create a view which lists the daily sales date wise for the last one week

2. **Database Schema for a Student Library scenario**

Student(**Stud_no : integer,**Stud_name: string) Membership(**Mem_no: integer**,**Stud_no: integer**) Book(**book_no: integer**, book_name:string, author:

string) Iss_rec**(iss_no:integer**, iss_date: date, **Mem_no: integer**, **book_no: integer**)

For the above schema, perform the following

a) Create the tables with the appropriate integrity constraints
b) Insert around 10 records in each of the tables
c) List all the student names with their membership numbers
d) List all the issues for the current date with student and Book names
e) List the details of students who borrowed book whose author is CJDATE
f) Give a count of how many books have been bought by each student
g) Give a list of books taken by student with stud_no as 5
h) List the book details which are issued as of today
i) Create a view which lists out the iss_no, iss _date, stud_name, book name
j) Create a view which lists the daily issues-date wise for the last one week

3. Database Schema for a Employee-pay scenario

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

a) Create the tables with the appropriate integrity constraints
b) Insert around 10 records in each of the tables
c) List the employee details department wise
d) List all the employee names who joined after particular date
e) List the details of employees whose basic salary is between 10,000 and 20,000
f) Give a count of how many employees are working in each department
g) Give a names of the employees whose netsalary>10,000
h) List the details for an employee_id=5
i) Create a view which lists out the emp_name, department, basic, dedeuctions,

netsalary

Create a view which lists the emp_name and his netsalary**4. Database Schema for a Video Library scenario** Customer (cust_no: nteger,cust_name: string) Membership (**Mem_no: integer**, **cust_no: integer**)

Cassette (**cass_no:integer**, cass_name:string, Language: String)

Iss_rec**(iss_no: integer**, iss_date: date, **mem_no: integer**, **cass_no: integer**)

For the above schema, perform the following

a) Create the tables with the appropriate integrity constraints
b) Insert around 10 records in each of the tables
c) List all the customer names with their membership numbers
d) List all the issues for the current date with the customer names and cassette names
e) List the details of the customer who has borrowed the cassette whose title is " The Legend"
f) Give a count of how many cassettes have been borrowed by each customer
g) Give a list of book which has been taken by the student with mem_no as 5
h) List the cassettes issues for today
i) Create a view which lists outs the iss_no, iss_date, cust_name, cass_name
j) Create a view which lists issues-date wise for the last one week

5. Database Schema for a student-Lab scenario

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, dayof week: string)**

For the above schema, perform the following

a)Create the tables with the appropriate integrity constraints

b)Insert around 10 records in each of the tables

c) List all the machine allotments with the student names, lab and machine numbers

d)List the total number of lab allotments day wise

e)Give a count of how many machines have been allocated to the 'CSE' class

f)Give a machine allotment details of the stud_no 5 with his personal and class details

g)Count for how many machines have been allocated in **Lab_no 1** for the day of the week as "Monday"

h)How many students class wise have allocated machines in the labs

i)Create a view which lists out the stud_no, stud_name, mach_no, lab_no, dayofweek

j)Create a view which lists the machine allotment details for "Thursday

6. Create a cursor, which displays all employee numbers and names from the EMP table

7. Create a cursor, which update the salaries of all employees as per the given data

8. Create a cursor, which displays names of employees having salary > 50000

9.Create a procedure to find reverse of a given number

10.Create a procedure to update the salaries of all employees as per the given data

11. Create a procedure to demonstrate IN, OUT and INOUT parameters

12. Create a function to check whether given string is palindrome or not.

13. Create a function to find sum of salaries of all employees working in depart number 10

14. Create a trigger before/after update on employee table for each row/statement

15. Create a trigger before/after delete on employee table for each row/statement

16. Create a trigger before/after insert on employee table for each row/statement