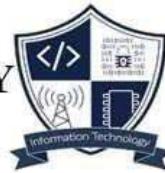




PARSHVANATH CHARITABLE TRUST'S
A. P. SHAH INSTITUTE OF TECHNOLOGY
Department of Information Technology
(NBA Accredited)



1. ER Diagram for hotel management system.
2. Create a table named Students with the following fields:
 - StudentID (Integer, Primary Key) • Name (Varchar) • Age (Integer) • Email (Varchar) Perform the following:
 1. Add a column Gender.
 2. Modify the data type of Age to SMALLINT.
 3. Drop the column Email.
 4. Rename the table to StudentRecords
 - 3. Create a table Products with the following fields:
 - ProductID (Primary Key) • ProductName • Category • Quantity • Price Tasks:
 1. Add a column SupplierName.
 2. Change Quantity data type to SMALLINT.
 3. Drop the Category column.
 4. Rename the table to Inventory.
 - 4. Create a table Courses with: CourseID (Primary Key), CourseName, Credits, Instructor Tasks:
 1. Add a column Semester.
 2. Change the data type of Credits from INT to FLOAT.
 3. Remove the Instructor column.
 4. Rename the table to AvailableCourses.
 - 5. CREATE DATABASE CollegeDB; USE CollegeDB; CREATE TABLE emp and apply following commands:
 1. Insert more than a record into emp table using a single insert command.
 2. Update the emp table to set the salary of all employees to Rs15000/- who are working as Assistant Professor
 3. Delete only those who are working as lecturer
 - 6. Consider following two tables

Employees Table:

EmpID	EmpName	DeptID	Salary
1	Alice	101	50000.00
2	Bob	102	60000.00
3	Charlie	101	55000.00
4	David	103	45000.00
5	Eva	102	65000.00

Department Table:

DeptID	DeptName
101	HR
102	IT
103	Finance



PARSHVANATH CHARITABLE TRUST'S

A. P. SHAH INSTITUTE OF TECHNOLOGY**Department of Information Technology**

(NBA Accredited)



1. Count total employees
2. Find maximum and minimum salary
3. Find average salary per department
4. Use UNION ALL
5. Use innerjoin

7. Create table employee as follows:

OUTPUT:

ID	NAME	AGE	ADDRESS	SALARY
1	Ramesh	32	Ahmedabad	2000.00
2	Khilan	25	Delhi	1500.00
3	kaushik	23	Kota	2000.00
4	Chaitali	25	Mumbai	6500.00
5	Hardik	27	Bhopal	8500.00

- Create view
- Update view
- Delete View
- Drop view

8. Consider a database table **Customer** (**CustID**, **Name**, **City**, **Balance**) used to store customer details for a bank.

You are required to demonstrate the use of **TCL (Transaction Control Language) commands: COMMIT, ROLLBACK, and SAVEPOINT** using the following scenarios:

1. **Data Setup:**
 - Create the Customer table with the attributes **CustID**, **Name**, **City**, and **Balance**.
 - Insert at least **three initial records** and permanently save them using **COMMIT**.
2. **Use of ROLLBACK:**
 - Delete a customer record without using **COMMIT**.
 - Apply the **ROLLBACK** command to restore the deleted record.
3. **Use of SAVEPOINT:**
 - Insert three new customer records.
 - Create **two savepoints** after inserting the first and second records.



- Roll back to the second savepoint to undo the last insertion, while keeping the earlier ones intact.
- Finally, use `COMMIT` to save the correct state of the table.

9. An e-commerce website stores orders in **Orders(OrderID, CustomerName, ProductName, Amount)**.

1. Insert 3 orders and commit them.
2. Cancel (delete) an order but roll back to restore it.
3. Insert 3 new orders, creating savepoints.
4. Roll back to the first savepoint to undo later orders.
5. Commit the transaction and show final orders list.

10. Create Customer Table:

Field	Type	Null	Key	Default	Extra
CustID	int	YES		NULL	
Name	varchar(50)	YES		NULL	
Age	int	YES		NULL	
Address	varchar(100)	YES		NULL	
Salary	float	YES		NULL	

5 rows in set (0.06 sec)

Write procedure

Call the procedure

11. Write function to Check if salary is above 10,000 on customer table.

12. Create a stored procedure that uses a cursor to display the names of employees who earn more than 50,000 from an employees table.