Hand-out 1

TOPIC: Create the tables of the database and inserting the tuples

DATATYPES Supported by Oracle: -

- Number (precision, [scale])
- Char (size)
- Varchar2(size)
- Date

1. **Query for creating a relation: -**
   - CREATE TABLE table_name (column_name1 data_type(size), column_name2 data_type(size), column_name3 data_type(size), ...);
   - CREATE TABLE table_name (column_name1 data_type(size) constraint_name, column_name2 data_type(size) constraint_name, column_name3 data_type(size) constraint_name, ...);
   - *Example: -*
   - *create table employee(emp_no varchar2(25), ename char(35),basic number(10));*
2. **Query for inserting values into the relation: -**
   - INSERT INTO TABLE_NAME (column1, column2, column3,...columnN) VALUES (value1, value2, value3,...valueN);
   - *Example: -*
   - *Insert into employee(emp_no, ename, basic) values('100','Ganesh', 10000);*
3. **Displaying the contents of a relation: -**
   - *Example: -*
   - *Select * from employee;*
4. **Query for displaying the structure of a relation:-**
   - Desc tablename;
   - *Example: -*
   - *Describe employee;*
   - *Desc employee;*
5. **Query for adding a column after creating of a relation**
   - ALTER TABLE table_name ADD column_name datatype;
   - *Example :-*
   - *Alter table employee add dependent number(5);*
6. **Query for removing a column after creating a relation**
   - ALTER TABLE table_name DROP COLUMN column_name;
   - *Example:-*
   - *Alter table employee drop column dependent;*
7. **Query for changing a columns datatype**
   - ALTER TABLE table_name MODIFY COLUMN column_name datatype;
   - *Example: -*
   - *alter table employee modify (emp_no number(10));*
8. **Query for removing a relation structure from the database**
   - DROP TABLE table_name;
   - *Example :-*
   - *drop table employee;*

Using the above given information execute the following questions

1. Consider the following schema:
    - Suppliers(sid: integer, sname: string, address: string)
    - Parts(pid: integer, pname: string, color: string)
    - Catalog(cid: integer, ppid: integer, cost: real)

    Create the above three relations with the specified datatypes and insert atleast 5 tuples in each table.

2. Consider the following relations containing airline flight information:
    - Flights(flno: integer, from: string, to: string, distance: integer, departs: time, arrives: time)
    - Aircraft(aid: integer, aname: string, cruisingrange: integer)
    - Certified(eid: integer, aid: integer)
    - Employees(eeid: integer, ename: string, salary: integer)

    Create the above three relations with the specified datatyes and insert atleast 5 tuples.

3. Display the structures of all the tables created above
4. Display the information in all the tables created above
5. Add a new column of your choice to all of the tables created above
6. Change the datatype of any column of your choice in all the tables created above
7. Delete data from all the tables you created above
8. Drop all the tables you created.