

## **DBMS Lab (PCC CS691)**

### **Assignment-5**

#### **(Database View, index, TCL and PL/SQL)**

##### **Question-1: (Database View Creation)**

For a given EMPLOYEE tables Perform the Following

| EMPLOYEE | FNAME    | MINIT | LNAME   | SSN       | BDATE      | ADDRESS                  | SEX | SALARY | SUPERSSN  | DNO |
|----------|----------|-------|---------|-----------|------------|--------------------------|-----|--------|-----------|-----|
|          | John     | B     | Smith   | 123456789 | 1965-01-09 | 731 Fondren, Houston, TX | M   | 30000  | 333445555 | 5   |
|          | Franklin | T     | Wong    | 333445555 | 1955-12-08 | 638 Voss, Houston, TX    | M   | 40000  | 888885555 | 5   |
|          | Alida    | J     | Zelaya  | 989887777 | 1968-07-19 | 3321 Castle, Spring, TX  | F   | 25000  | 987654321 | 4   |
|          | Jennifer | S     | Wallace | 987654321 | 1941-06-20 | 291 Berry, Belkane, TX   | F   | 43000  | 888885555 | 4   |
|          | Ramoth   | K     | Narsyan | 666884444 | 1962-09-15 | 975 Fire Oak, Humble, TX | M   | 38000  | 333445555 | 5   |
|          | Joyce    | A     | English | 453453453 | 1972-07-31 | 5631 Rice, Houston, TX   | F   | 25000  | 333445555 | 5   |
|          | Ahmad    | V     | Jabbar  | 987987987 | 1959-03-29 | 960 Dallas, Houston, TX  | M   | 25000  | 987654321 | 4   |
|          | James    | E     | Borg    | 668885555 | 1937-11-10 | 450 Stone, Houston, TX   | M   | 55000  | null      | 1   |

1. Creating Views (With and Without Check Option).
2. Selecting from a View.
3. Update the view with an insertion of record.
4. Dropping Views.

##### **Question-2:**

Create an employee table, employee = {emp\_id, emp\_name, emp\_add, emp\_age, emp\_sal}

- i. Create a simple index on a single column emp\_id on employee table.
- ii. Create a simple index on a multiple columns on employee table.
- iii. Drop index from a relation.

##### **Question-3:**

Write SQL statements to show the use of commit, savepoint and rollback operations of TCL on the above employee relation.

##### **Question-4:**

Write a PL/SQL program to display a constant value and an addition of two number variables (keyboard inputs).

**Question-5:**

Write a PL/SQL program to declare two strings (firstname, lastname) and display them individually and also display the full name by concatenation.

**Question-6:**

Write a PL/SQL program to select emp\_name and emp\_sal from employee relation with respect to an emp\_id and calculate the DA ( $\text{emp\_sal} \times 0.5$ ) and total\_sal ( $\text{emp\_sal} + \text{DA}$ ). Finally display the employee name and Total salary.

**Question-7:**

Write a PL/SQL program to accept lower limit and upper limit of a range of values. Find out the even and odd number from that given range of values.

**Question-8:**

Write a PL/SQL program to accept the final limit of a Fibonacci series and display the series in output (0 1 1 2 3 5 8 13 .....).