

**Amrita School of Engineering, Amritapuri Campus.**  
**19CSE101: Computer Systems Essentials**  
**LAB SHEET 1-RDBMS**  
**PostgreSQL – Create and Insert Query familiarization**

1. Consider the database for a college and write the queries for the following:

a. Create the following 7 relations(tables) into a database **College**:

- i. **Student** (s\_id, s\_name, sex, dob, dep\_no)
- ii. **Department** (dep\_no, dep\_name)
- iii. **Faculty** (f\_id, f\_name, designation, salary, dep\_no)
- iv. **Course** (c\_id, c\_name, credits, dep\_no)
- v. **Register** (s\_id, c\_id, sem)
- vi. **Teaching** (f\_id, c\_id, sem)
- vii. **Hostel** (h\_id, h\_name, no\_rooms)

b. Insert the following data into each of the relations

**Student**

s_id	s_name	sex	dob	dep_no
CSE101	Anand	M	20-10-2004	1
ECE161	Viji	F	02-03-2005	2

**Department**

dep_no	dep_name
1	CSE
2	ECE

**Faculty**

f_id	f_name	designation	dep_no
F131	Arun	Assistant Professor	3
F254	Devi	Lecturer	2

**Course**

c_id	c_name	credits	dep_no
E001	Digital Electronics	3	2
C321	DBMS	4	1

**Register**

s_id	c_id	Sem
CSE101	C321	4
ECE133	E001	3

**Teaching**

f_id	c_id	sem
F131	C321	4
F254	E001	3

**Hostel**

h_id	h_name	no_rooms
H01	Ganga	100
H02	Yamuna	200

- c. Insert 5 more tuples into each of the created relations.
  - d. Display the contents of each of the relations.
  - e. Remove the relation Register
2. Consider a database for a banking enterprise. Write the queries for the following.
- a. Create the following 7 relations inside a database **BankingSector**

Table Name	Attributes
Customer	c_id, c_name, loc, sex, dob
Bank	branch, b_code, b_loc, b_state
Deposit	d_ac_no, d_type, d_date, d_amt
Loan	l_ac_no, l_type, l_date, l_amt
Accounts_in	b_code, c_id
Depositor	c_id, d_ac_no
Borrower	c_id, l_ac_no

- b. Populate each of the created relations with 5 tuples.
- c. Display the contents of each of the relations.