# Lab Assignment 3

1. Create a table emp12, with attributes empid,empname, phno, age, and emp_country. Make emp id the primary key of the table. Make empname not null, phno unique and put a check constraint on age which make sure employees are not below 18. Put a default value "India" on emp_country.

2. Insert the following tuples into emp12 table.

| empid | empname | phno | age | emp_country |
|-------|---------|------|-----|-------------|
| 112 | Michael | 234 | 19 | Russia |
| 113 | Abdul | 913 | 25 | |
| 131 | | 678 | 43 | USA |
| 132 | Riya | 234 | 22 | India |
| 113 | Lily | 876 | 60 | UK |
| 127 | Dino | 777 | 17 | Italy |
| 117 | Indira | 676 | | |

3. Drop the check constraint on age.

4. Put a default constraint with value 18 on age along with a check constraint which ensures age value is greater than or equal to 18 and less than or equal to 70.

5. Insert the following rows in the emp12 table.

| empid | empname | phno | age | emp_country |
|-------|---------|------|-----|-------------|
| 114 | Raj | 238 | 54 | USA |
| 115 | Abhay | 222 | | |

6. Create table projectx with attributes pid, pname, phead, ploc and pmembers. pmembers should have a default value of 5. Make (pid,pname) the primary key. Use a constraint named uc_px_34 to make phead and ploc unique. Put a check constraint named ck_px_5 on pmembers which ensures that the number of pmembers must not exceed 5.

7. Drop the primary key of the projectx table.

8. Put a constraint named pk_px_1 on pid, making pid the primary key of the table.

9. Insert the following rows in projectx table.

| pid | pname | phead | ploc | pmembers |
|-----|-------|-------|------|----------|
| a11 | dexter | 112 | Miami | 2 |
| p67 | luna | 113 | Chennai | 3 |
| x55 | east_west | 114 | Japan | |

10. Delete all rows from emp12 table except the rows having primary keys (112, 113, 114).

11. Insert a column named project in the emp12 table.

12. Update the table as follows.

| empid | empname | phno | age | emp_country | project |
|-------|---------|------|-----|-------------|---------|
| 112 | Michael | 234 | 19 | Russia | a11 |
| 113 | Abdul | 913 | 25 | India | p67 |
| 114 | Raj | 238 | 54 | USA | x55 |

13. Make the project attribute of the emp12 table a foreign key that links it to the pid attribute of the projectx table.

14. Insert the following tuples in the emp12 table.

| empid | empname | phno | age | emp_country | project |
|-------|---------|------|-----|-------------|---------|
| 115 | Bono | 910 | | | a11 |
| 116 | Caitlin | 660 | 25 | UK | p67 |
| 117 | Rajesh | 200 | 60 | | x50 |

15. 15. Make the phead attribute of the projectx table a foreign key that links it to the empid attribute of the emp12 table.

16. Display all the constraints there are in emp12 table.

17. Drop all the constraints in emp12 table one by one.

18. Make emp_id the primary key of the employee table (of assignment 2).

19. Make the dept attribute of the employee table a foreign key refering to the department table (of assignment 2).

20. Make d_name the primary key of the department table (of assignment 2).

21. Make the dept attribute of the employee table a foreign key refering to the d_name attribute of the department table (of assignment 2).