**Assignment 7 Databases**

1. Hospital OPD Database:

Patient(patient-id, patient-name, DOB, Sex)

Doctor(Doctor-id, Name, specialization, Unit)

OPD\_Schedule(Doctor-id, date, time, fees)

Appointment (appointment-no, patient-id, doctor-id, date)

OPD\_payments(appointment-no, patient-id, amt, date\_payment)

1. Student Attendance Database:

Student(Sroll, Name, Branch, Batch, Programme)

Course(CID, Cname, Instructor Name)

Attendance(Sroll, Course ID, Period, Total#class, Attendance)

Period includes start-date and end-date, Total#class states total number of classes conducted during a period.

1. Migrant Worker Database:

Create a database for migrant workers with the following relational schema:

MIGRANTW (Enroll\_ID, Name, Skill, Address, PJobloc, Ph no, Enroll\_date)

PJobloc is a multivalued attribute holds information about preferred job location of the migrant worker separated by comma. Skill is a multi-valued attribute defines the skill of the migrant worker such as “Electrician”, “Carpenter”, “TV Mechanic”, “Security Guard”, “Cab Driver”, etc separated by comma. You can consider many different types of skills as per your choice. Address must contain state information. All attributes are enforced with NOT NULL constraint.

Create two new relations with following schema.

Company\_Req(cname, job type, job\_location, vacancy, skill\_required)

Place\_Migrant(cname, enroll\_ID, job type, osalary, job\_location, place\_date)

The Company\_Req relation stores available job information where (cname, job type, job\_location) is primary key. Vacancy represents number of openings available. The Place\_Migrant relation holds placement of migrants in respective companies. The data in this table will be populated automatically using a trigger as and when data inserted in Company\_Req table. The process is as follows:

When a record is inserted in Company\_Req, a trigger will check the records in MIGRANTW relation to match skill\_required and job\_location. In case, there is match, it will insert first X number of migrants (sorted by enroll\_date) into Place\_Migrant relation, where X <= “vacancy”. You can consider some value for osalary attribute and place\_date is SYSDATE. You can use cursor to keep migrant details based on matching criteria and use it for inserting X number of records into Place\_Migrant relation.