**Lab Exercise – 2**

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Question. Execute the following queries on the database and discuss the integrity constraints violated by any of the following operations:

1. **INSERT(‘Robert’,’F’,’Scott’,’943775543’,’21-JUN-1942’,’2356 NewCastle Rd, Bellaire, TX’, M, 58000, ‘888665555’,1) into EMPLOYEE**

Query OK, 1 row affected (0.21 sec)

1. **INSERT (‘677678989’,null,’40.0’) into works\_on.**

ERROR 1048 (23000): Column 'ProjectNO' cannot be null

1. **INSERT (‘453453453’,’John’,M,’12-DEC-1960’,’spouse’) into DEPENDENT.**

Query OK, 1 row affected (0.09 sec)

1. **Delete the WORKS\_ON tuples with ESSN=’333445555’.**

Query OK, 0 rows affected (0.08 sec)

1. **Modify the MGRSSN and MGRSTARTDATE of the department tuple with DNUMBER=5 to ‘123456789’ and ’01-OCT-88’ respectively.**

Query OK, 1 row affected (0.13 sec)

Rows matched: 1 Changed: 1 Warnings: 0

**Alter the tables to:**

1. **Add foreign keys using alter table.**

Done Above

1. **Drop foreign key defined on SUPERSSN and add it again.**

alter table employee drop constraint fk\_superssn;

alter table employee add constraint fk\_superssn foreign key(supervisor\_ssn) references employee(ssn) on delete set null;

1. **Make name of Project as Unique and sex of employee as not null.**

alter table project add constraint con\_uk UNIQUE(project\_name);

alter table employee modify(sex char(1) constraint sex\_null NOT NULL);

1. **Make address as a new type containing door no., street, city, State, Continent.**
2. **Make Salary of EMPLOYEE to accept real values.**

alter table employee modify salary real;