

Government Engineering College Thrissur

Application Development Lab

Navaneeth D CSE,S5 TCR18CS043

OUTPUT SCREENSHOTS

INSERTION

a) Insert an employee tuple in EMPLOYEE table with Ssn as NULL

```
mysql> INSERT INTO EMPLOYEE(Ssn, Fname, Minit, Lname, BDate, Address, Salary, Super_ssn, Sex, Dno) VALUES
-> (NULL, 'Mark', 'B', 'Range', '1999-09-01', 'Calicut', 100000, 1, 'M', 1);
Query OK, 1 row affected (0.17 sec)
mysql> select * from EMPLOYEE;
  Ssn | Fname | Minit | Lname | Bdate
                                             | Address | Salary | Dno | Super ssn | Sex
                                                                                    1 | M
       Mark
                                 1999-09-01 | Calicut |
                                 1999-09-02
                                                                       2
                                                           200000
                                                                                    2 | M
        Ram
                         Seige |
                                               Thrissur |
                                                                                    1 | M
        Clark
                N
                         Rager
                                 1999-09-03
                                               Chicago
                                                           300000
                        Range | 1999-09-01 |
       Mark
                В
                                               Calicut
                                                           100000
                                                                                    1 | M
 rows in set (0.00 sec)
```

NOTE: Here instead of an error that shows PRIMARY KEY cannot be NULL, the Ssn is automatically incremented because of the AUTO_INCREMENT constraint introduced in the DDL phase.

b) Insert an employee tuple in EMPLOYEE table with an existing Ssn (already an employee is there with the same Ssn)

```
mysql> INSERT INTO EMPLOYEE(Ssn, Fname, Minit, Lname, BDate, Address, Salary, Super_ssn, Sex, Dno) VALUES
-> (1, 'Mark', 'B', 'Range', '1999-09-01', 'Calicut', 100000, 1, 'M', 1);
ERROR 1062 (23000): Duplicate entry '1' for key 'EMPLOYEE.PRIMARY'
mysql> []
```

 c) Insert an employee tuple in EMPLOYEE table with a non-existing Dno

DELETION

a) Delete the WORKS_ON tuple with the given Essn and Pno

b) Delete an EMPLOYEE tuple with a given Ssn

```
        mysql> SELECT * FROM EMPLOYEE;

        | Ssn | Fname | Minit | Lname | Bdate | Address | Salary | Dno | Super_ssn | Sex |

        | 1 | Mark | B | Range | 1999-09-01 | Calicut | 100000 | 1 | 1 | M |

        | 2 | Ram | K | Seige | 1999-09-02 | Thrissur | 200000 | 2 | 2 | M |

        | 3 | Clark | N | Rager | 1999-09-03 | Chicago | 300000 | 2 | 1 | M |

        | 4 | Mark | B | Range | 1999-09-01 | Calicut | 100000 | 1 | 1 | M |

        4 rows in set (0.00 sec)

        mysql> DELETE FROM EMPLOYEE WHERE Ssn = 4;

        Query 0K, 1 row affected (0.16 sec)

        mysql> SELECT * FROM EMPLOYEE;

        | Ssn | Fname | Minit | Lname | Bdate | Address | Salary | Dno | Super_ssn | Sex |

        | 1 | Mark | B | Range | 1999-09-01 | Calicut | 100000 | 1 | 1 | M |

        | 2 | Ram | K | Seige | 1999-09-02 | Thrissur | 200000 | 2 | 2 | M |

        | 3 | Clark | N | Rager | 1999-09-03 | Chicago | 300000 | 2 | 1 | M |

        3 rows in set (0.00 sec)
```

UPDATION

a) Update the salary of an employee to some new salary, given the Ssn

b) Update Dno of an employee to some non-existing department number

```
mysql> UPDATE EMPLOYEE SET Dno = 5 WHERE Ssn = 1;
ERROR 1452 (23000): Cannot add or update a child row: a foreign key constraint fails (`trial`.`E
MPLOYEE`, CONSTRAINT `EMPLOYEE_ibfk_2` FOREIGN KEY (`Dno`) REFERENCES `DEPARTMENT` (`Dnumber`))
mysql> []
```