#### **VIOLATION OF PRIMARY KEY**

## Department table



If we insert duplicate key:

INSERT INTO Department VALUES(102, 'Accounts', 250);

We get an error:

73 00:57:12 insert into department values(102, 'Accounts', 250)

Error Code: 1062. Duplicate entry '102' for key 'department.PRIMARY'

### **VIOLATION OF UNIQUE KEY**

Branch table

Branch_ID	Branch_Name	No. of Employees	Location	Manager_ID
1	Scranton	50	Pennsylvania	1001

Here manager\_id must be a unique value since two branches cannot have the same manager.

If we insert duplicate key for manager\_id:

INSERT INTO branch VALUES(02, 'Corporate', 50, 'New York', 1001); We get the following error:

21 16:47:49 insert into branch values (02, 'Corporate', 50, 'New York', 1001)

Error Code: 1062. Duplicate entry '1001' for key 'branch.Manager\_ID\_UNIQUE'

#### **VIOLATION OF NOT NULL KEY**

If we insert null value for the first name: INSERT INTO Employee VALUES(1005, NULL, NULL, 1978-10-01, 50000, 01);

We get the following error:

87 01:03:01 insert into employee values (1005, NULL, NULL, 19781001, 50000, 102, 01)

Error Code: 1048. Column 'First Name' cannot be null

#### **VIOLATION OF DEFAULT KEY CONSTRAINT:**

If we do not insert any value for first name in employee table, it gives the following error:

90 01:04:17 insert into employee(employee\_id) values(1006)

Error Code: 1364. Field 'First Name' doesn't have a default value

# CHANGE IN FOREIGN KEY CONSTRAINT WHEN WE INSERT TUPLE TO DEPENDANT TABLE FIRST

Since the employee table is dependant on the branch table, we cannot add a branch\_id to employee table if it doesn't exist already.

If we insert tuple to employee table before the branch table, the following error occurs:

16:10:37 insert into employee values(1009, 'Dwight', 'Shrute', 19730408, 50000, 102, 02)

Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('companydb', 'employee', CONS... 0.375 sec

Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails ('companydb'.'employee', CONSTRAINT 'Branch\_ID' FOREIGN KEY ('Branch\_ID') REFERENCES 'branch' ('Branch\_ID') ON DELETE SET NULL