

# RELATIONAL MODEL

**stop (stop\_id, sname)**

**primarykey(stop\_id)**

stop\_id INT(11) PRIMARY KEY

sname VARCHAR(25)

**route(route\_id, rname, source, destination)**

**primarykey(route\_id)**

route\_id INT(11) PRIMARY KEY

rname VARCHAR(30)

source VARCHAR(25) (trigger implemented so that it refers to stop.sname)

destination VARCHAR(25) (trigger implemented so that it refers to stop.sname)

**route\_stops(route\_id, stop\_id, stop\_order)**

**primarykey(route\_id, stop\_id)**

FOREIGN KEY route\_id REFERENCES route(route\_id)

FOREIGN KEY stop\_id REFERENCES stop(stop\_id)

stop\_order INT(11)

**bus\_runs\_on(reg\_no, route\_id, capacity, model, features)**

**primarykey(reg\_no)**

reg\_no INT(11) PRIMARY KEY

FOREIGN KEY route\_id REFERENCES route(route\_id)

capacity INT(11)

model VARCHAR(20)

features SET('ac', 'videocoach', 'sleeper', 'deluxe', 'non ac', 'music system', 'slidable chair' )

**service\_schedule(reg\_no, day, departure\_time, route\_id)**

**primarykey(reg\_no, day, departure\_time)**

FOREIGN KEY reg\_no REFERENCES bus\_runs\_on(reg\_no)

FOREIGN KEY route\_id REFERENCES route(route\_id)

day SET('monday', 'tuesday', 'wednesday', 'thursday', 'friday',  
'saturday','sunday')

departure\_time TIME

**driver\_works\_for(emp\_id, name, dob, license\_num, reg\_no, day, d\_age)**

**primarykey(emp\_id)**

emp\_id INT(11) PRIMARY KEY

name VARCHAR(20)

dob DATE

license\_num INT(11) UNIQUE

FOREIGN KEY reg\_no REFERENCES bus\_runs\_on(reg\_no)

day SET('monday', 'tuesday', 'wednesday', 'thursday', 'friday', 'saturday',  
'sunday')

d\_age INT(11)

**assistant\_works\_for(emp\_id, name, dob, reg\_no, day, ast\_age)**

**primarykey(emp\_id)**

emp\_id INT(11) PRIMARY KEY

name VARCHAR(20)

dob DATE

FOREIGN KEY reg\_no REFERENCES bus\_runs\_on(reg\_no)

day SET('monday', 'tuesday', 'wednesday', 'thursday', 'friday', 'saturday',  
'sunday')

ast\_age INT(11)