

Foreign Key “Breaks”

```
INSERT INTO default_plan VALUES(14, "standard plan");  
-- Note: vehicle_type 14 does not have standard plan as an allowed plan
```

```
ERROR 1452 (23000) at line 66 in file: 'hw1-data.sql': Cannot add or update a child row: a foreign key constraint fails ('ssovi_DB`.`default_plan`, CONSTRAINT `default_plan_ibfk_1` FOREIGN KEY (`vt_id`, `price_plan`) REFERENCES `allowed_plan` (`vt_id`, `price_plan`))
```

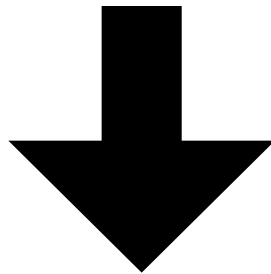
```
INSERT INTO vehicle VALUES (3, 13, True, False, False, -45.135, -42.135, 20.4, 12.5);  
-- Note: vehicle_type 13 does not exist
```

```
ERROR 1452 (23000) at line 70 in file: 'hw1-data.sql': Cannot add or update a child row: a foreign key constraint fails ('ssovi_DB`.`vehicle`, CONSTRAINT `vehicle_ibfk_1` FOREIGN KEY (`vt_id`) REFERENCES `vehicle_type` (`vt_id`))
```

```
INSERT INTO trip VALUES(109, 3, 1, "standard plan", "2022-01-05 01:02:03", "2022-01-06 01:02:04", -45.135, -42.135, -45.134, -42.146);  
-- Note: customer 3 does not yet exist
```

```
ERROR 1452 (23000) at line 73 in file: 'hw1-data.sql': Cannot add or update a child row: a foreign key constraint fails ('ssovi_DB`.`trip`, CONSTRAINT `trip_ibfk_1` FOREIGN KEY (`c_id`) REFERENCES `customer` (`c_id`))
```

Domain “Breaks” on next page



Domain Constraint “Breaks”

```
-- Domain constraint  
INSERT INTO vehicle_type VALUES (15, "e-car", "Bike", "Samson", "SLX", "NJS Samson", 17.2, 30.4, 20.3);  
-- Note: vehicle_types can only have form factor "e-scooter" or "e-bike" (not "e-car")
```

```
ERROR 4025 (23000) at line 78 in file: 'hw1-data.sql': CONSTRAINT `valid_form_factor` failed for `ssovi_DB`.`vehicle_type`  
Type: VARCHAR(255) [100]
```

```
INSERT INTO vehicle VALUES (1, 12, True, False, False, -45.135, -42.135, 101, 12.5);  
-- Note: vehicle can only have a fuel percent between 0 and 100 inclusive (not 101)
```

```
ERROR 4025 (23000) at line 81 in file: 'hw1-data.sql': CONSTRAINT `valid_curr_fuel_pct` failed for `ssovi_DB`.`vehicle`  
Type: DECIMAL(10,2) [100]
```