Table Creation

**CREATE TABLE Transport(**

**t\_id Varchar(20),**

**d\_id Varchar(10),**

**v\_registration Varchar(30),**

**v\_name Varchar(15),**

**primary key(t\_id) ,**

**Unique(d\_id ,v\_registration)**

**);**

Inserting Values

1. insert into Transport(t\_id,d\_id,v\_registration,v\_name) values('tr101','1001','23451','BUS')
2. insert into Transport(t\_id,d\_id,v\_registration,v\_name) values('tr102','1002','23452','BUS')
3. insert into Transport(t\_id,d\_id,v\_registration,v\_name) values('tr103','1003','23453','BUS')
4. insert into Transport(t\_id,d\_id,v\_registration,v\_name) values('tr104','1004','23454, 33454','BUS')
5. insert into Transport(t\_id,d\_id,v\_registration,v\_name) values('tr105','1005','23455, 33455','BUS')
6. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr201','1006','23456, 23457','BUS')
7. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr304','10013','234513','BUS')
8. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr202','1007','23457','BUS')
9. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr203','1008','23458','BUS')
10. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr204','1009','23459','BUS')
11. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr205','10000','23400','BUS')
12. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr301','10010','234510, 334510','BUS')
13. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr302','10011','234511 , 334511','BUS')
14. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr303','10012','234512,334512','BUS')
15. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr305','10014','234514','BUS')
16. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr401','100152','2345152','BUS')
17. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr402','100151','2345151','BUS')
18. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr403','10015','234515','BUS')
19. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr404','10016','234516','Corolla')
20. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr405','10017','234517','Corolla')
21. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr501','10018','234518, 334518','Corolla')
22. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr502','10019','234519','Corolla')
23. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr503','10020','234520','Corolla')
24. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr504','10021','234521','Corolla')
25. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr505','10022','234522','Corolla')
26. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr601','10023','234523','Corolla')
27. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr602','10024','234524','Corolla')
28. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr603','10025','234525','Corolla')
29. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr604','10026','234526','Corolla')
30. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr605','10027','234527','Corolla')
31. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr701','10028','234528','Toyota')
32. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr702','10029','234529','Toyota')
33. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr703','10030','234530','Toyota')
34. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr704','10031','234531','Toyota')
35. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr705','10032','234532','Toyota')
36. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr801','10033','234533','Toyota')
37. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr802','10034','234534','Toyota')
38. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr803','10035','234535','Toyota')
39. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr804','10036','234536','Toyota')
40. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr805','10037','234537','Toyota')
41. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr901','10038','234538','Toyota')
42. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr902','10039','234539','Premio')
43. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr903','10040','234540','Premio')
44. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr904','10041','234541','Premio')
45. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr905','10042','234542, 334542','Premio')
46. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr1001','10043','234543','Premio')
47. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr1002','10044','234544','Premio')
48. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr1003','10045','234545','Premio')
49. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr1004','10046','234546','Premio')
50. insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr1005','10047','234547, 33457','Premio')

**1NF**

* + In 1NF Attributes value must be single
  + But we got double value in (t\_id- tr301, tr302, tr303, tr501, tr104, tr905, tr1005, tr105, tr201)’s rows from our Transport table (attribute name: v\_registration)
  + Then we have separated those double value and made individual row for each attribute value
  + Then all attributes value looks single

|  |  |  |  |
| --- | --- | --- | --- |
| T\_id | D\_id | V\_Reregistration | V\_name |
| tr301 | 10010 | 234510,334510 | BUS |

**Example:**

|  |  |  |  |
| --- | --- | --- | --- |
| T\_id | D\_id | V\_Reregistration | V\_name |
| tr301 | 10010 | 234510,334510 | BUS |

|  |  |  |  |
| --- | --- | --- | --- |
| T\_id | D\_id | V\_Reregistration | V\_name |
| Tr301 | 10010 | 234510 | BUS |
| Tr301 | 10010 | 334510 | BUS |

**2NF**

|  |  |  |  |
| --- | --- | --- | --- |
| **T\_id** | **D\_id** | **V\_Reregistration** | **V\_name** |
| tr101 | 1001 | 23451 | 1 |
| tr102 | 1002 | 23452 | 1 |
| tr103 | 1003 | 23452 | 1 |
| tr104 | 1004 | 23453 | 1 |
| tr104 | 1004 | 33454 | 1 |
| tr201 | 1006 | 23456 | 1 |
| tr201 | 1006 | 33457 | 1 |
| Tr202 | 10010 | 23457 | 1 |
| Tr502 | 10019 | 234519 | 2 |
| Tr503 | 10020 | 234520 | 2 |
| Tr701 | 10028 | 234528 | 3 |
| Tr702 | 10029 | 234529 | 3 |

|  |  |
| --- | --- |
| **S\_NO** | **V\_Name** |
| 1 | Bus |
| 2 | Corolla |
| 3 | Toyota |

**3NF**

|  |  |  |  |
| --- | --- | --- | --- |
| **T\_id** | **D\_id** | **V\_Reregistration** | **V\_name** |
| tr101 | 1001 | 23451 | 1 |
| tr102 | 1002 | 23452 | 1 |
| tr103 | 1003 | 23452 | 1 |
| tr104 | 1004 | 23453 | 1 |
| tr104 | 1004 | 33454 | 1 |
| tr201 | 1006 | 23456 | 1 |
| tr201 | 1006 | 33457 | 1 |
| Tr202 | 10010 | 23457 | 1 |
| Tr502 | 10019 | 234519 | 2 |
| Tr503 | 10020 | 234520 | 2 |
| Tr701 | 10028 | 234528 | 3 |
| Tr702 | 10029 | 234529 | 3 |

**Conclusion**

This project is relatively simple to understand and implement. It fulfills all the current

requirements of a local **Transport management company**. The system is very user-friendly; a

person with basic computer skills can easily use this system.

Queries of this project, **" Transport System"** are run in 'Oracle 10g’ In our project, we have mentioned the queries and inserted screenshots of the tables we created

using those queries. The normalization process makes this project simpler.

**Difficulties & Problems**

* + - Personal information of Transport managers and members may leak by Vehicle drivers
    - We are not expert in providing security so we have some lacings in security. Due to lack of proper security, this system can be easily hacked.

**Future Development**

* + - Increasing the system's security will eliminate the risk of data leakage and hacking.
    - We will add more features for developing our Transport System
    - In future the database must gather a large amount of data and Information for one or more features making system upgrades and data storage extremely expensive. We will focus on making pricing easier in the future.

If these issues are resolved, it is expected that this system will become more efficient, user-

friendly, and convenient in the future. We may add, modify, update, or delete something at any time.