

# **Project Report**

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## **STAMFORD UNIVERSITY ADMISSION**

**Code : CSI\_224**

**Title : {Database Management System}**

**Course Teacher : Tanvir Rahman**

# TEAM MEMBERS

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## INTRODUCTION

It is safe to say that now a days the vehicles increase day by day. When a driver management system is deployed, documents and training requirements can be managed more easily, ensuring compliance and safety. Technology can also help drivers optimize their working hours and routes, becoming more productive, but without overexerting themselves.

In our project, we will build a complete management system for an driver management system, creating an information-

sharing to the manager. This research work aims to provide a solution to the problem of driver management by designing a

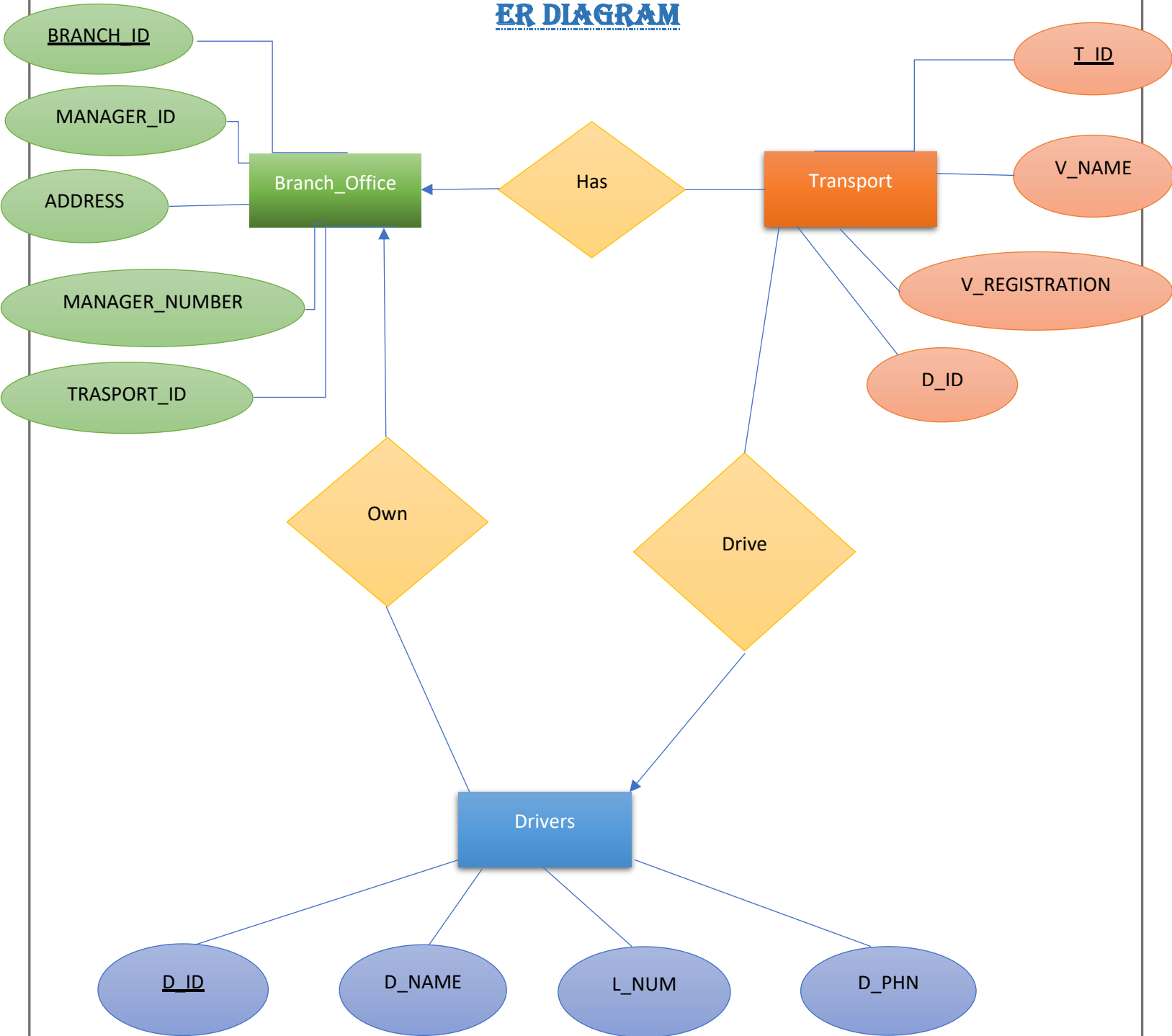
user-friendly computerized system that will be compatible with the existing manual systems. The database to be developed will solve driver management's problem, thus helping to reduce issues associated with the manual driver management system.

## SCENARIO DESCRIPTION

### Answer:-

In an "Transport Management System," an Branch\_office might appoint a manager. One Branch\_office might appoint one manager and one manager manages only one branch. Every Branch has an unique id By which they were represented distinctly. the system stores Branch\_id, Manager\_id, MANAGER\_NAME, ADDRESS, TRASPORT\_ID. One Branch must manages exactly one TRASPORT, but sometimes one manager can manage multiple TRASPORT. Every Trasport has their own unique id. This system stores the T\_ID, V\_NAME, V\_REGISTRATION, and D\_ID. One Branch must need one but also can own more drives .A Transport can be driven by only one Driver but one Driver can assing to many Transport. This system also records D\_ID, D\_NAME ,L\_NUM ,D\_PHN. An D\_id identifies every Drivers distictly.

# ER DIAGRAM





# TABLE CREATE

## 1.Branch Office:-

### SQL:-

```
CREATE TABLE Branch_Office(  
  
    branch_id Varchar(20),  
  
    Manager_id Varchar(20),  
  
    Manager_name Varchar(30),  
  
    Manager_Number Varchar(15),  
  
    Address Varchar(50),  
  
    Trasport_id Varchar(20),  
  
    primary key(branch_id) ,  
  
    Unique(Manager_id ,Trasport_id,Manager_Number)  
  
);
```

### OUTPUT:-

☒ Autocommit   Rows    Save Run

```
CREATE TABLE Branch_Office(  
    branch_id Varchar(20),  
    Manager_id Varchar(20),  
    Manager_name Varchar(30),  
    Manager_Number Varchar(15),  
    Address Varchar(50),  
    Trasport_id Varchar(20),  
    primary key(branch_id) ,  
    Unique(Manager_id ,Trasport_id,Manager_Number)  
);
```

**Results**   Explain   Describe   Saved SQL   History

Table created.

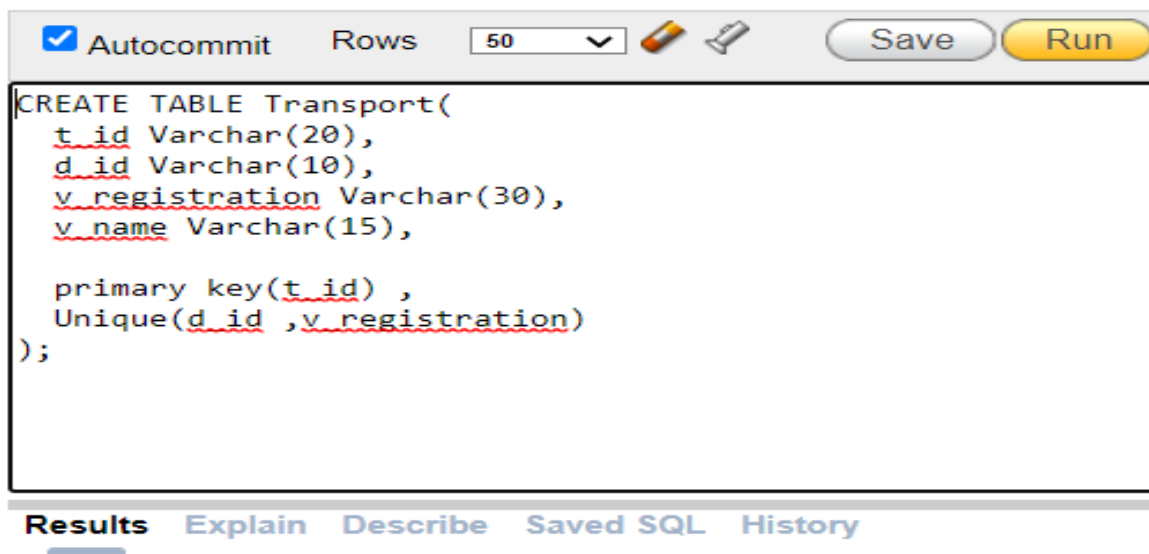
0.04 seconds

## 2.Transport:-

### SQL:-

```
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)  
);
```

### OUTPUT:-



### 3.Drivers:-

#### SQL:-

create table drivers(

D\_id varchar(10),

D\_name varchar(30),

L\_num varchar(10),



D\_phn int,

primary key(D\_id),

unique(L\_num, D\_phn)

);

#### OUTPUT:-

☒ Autocommit   Rows   50       Save   Run

```
create table drivers(  
D_id varchar(10),  
D_name varchar(30),  
L_num varchar(10),  
D_phn int,  
  
primary key(D_id),  
unique(L_num, D_phn)|  
);
```

**Results**   Explain   Describe   Saved SQL   History

Table created.

0.01 seconds

# TABLE DATA INSERT

## 1. Branch Office:-

### SQL:-

- 1.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br1','A1','Arnob','01234567899','Dhaka','tr101')
- 2.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br2','A2','Azman','01234567999','Dhaka','tr102')
- 3.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br3','B3','Hafiz','01234567990','Khulna','tr201')
- 4.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br4','B4','tofayel','01234567880','Khulna','tr202')
- 5.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br5','B5','topu','01234567680','Khulna','tr203')
- 6.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br6','B6','Shanto','01234567870','Khulna','tr204')
- 7.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br8','D7','Ria','01234577870','Cumilla','tr301')
- 8.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br9','D8','Parvez','01236567870','Cumilla','tr302')
- 9.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br10','A3','Porna','01336567870','Dhaka','tr103')
- 10.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br7','D9','Dipon','01236667870','Cumilla','tr303')
- 11.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br11','C1','Amir','01234567199','Chittagong','tr401')
- 12.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br22','C2','Farhan','01234567299','Chittagong','tr402')
- 13.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br13','E3','Morion','01234567993','Barisal','tr501')
- 14.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br14','E4','Tisha','01234567880','Barisal','tr502')



15.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br15','E5','Amy','01234567680','Barisal','tr503')

16.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br16','E6','Rownok','01234567870','Barisal','tr504')

17.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br18','F7','Rumi','01234577770','Faridpur','tr601')

18.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br19','F8','Polin','01236577870','Faridpur','tr602')

19.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br20','C3','Porna','01336567870','Chittagong','tr403')

20.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br27','F9','Nirob','01235677870','Faridpur','tr603')

21.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br12','A4','Purob','01244567899','Dhaka','tr104')

22.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br17','D2','Pius','01243667899','Cumilla','tr304')

23.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br21','B1','Efty','01214567899','Khulna','tr205')

24.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br23','B2','Isika','01114567899','Khulna','tr206')

25.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br24','C4','Rakib','01014567899','Chittagong','tr404')

26.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br26','A6','Robin','01014567299','Dhaka','tr106')

27.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br25','C5','Robin','01014567899','Dhaka','tr405')

28.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br28','A5','Rakib','01204567199','Dhaka','tr105')

29. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br29','A6','Robin','01014567299','Dhaka','tr106')

30.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br30','E1','Sumon','01012567399','Barisal','tr505')

31.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br31','E2','Samira','01230567499','Barisal','tr506')

32.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br32','F2','Priti','01332567870','Faridpur','tr604')

33. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br33','D6','Rifat','01243997899','Cumilla','tr306')

34.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br34','D5','Raju','01243977899','Cumilla','tr305')

35. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br35','F5','Punom','01332561770','Faridpur','tr605')

36. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br36','F6','Puja','01332562770','Faridpur','tr606')

37.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br37','F3','Hanif','01332561777','Faridpur','tr607')

38.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br38','F4','Habib','01332562778','Faridpur','tr608')

39.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br39','E7','Qurashi','01230566899','Barisal','tr507')

40.insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address ,Trasport\_id ) values('br40','E8','Naruto','01230566999','Barisal','tr508')

41. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br41','D3','Akas','01221667899','Cumilla','tr307')

42. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br42','D4','Aveer','01222667899','Cumilla','tr308')

43. .insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id )values('br43','C6','Shikha','01914567899','Chittagong','tr407')

44. .insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id )values('br44','C7','Saima','01814567899','Chittagong','tr408')

45. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br45','A7','Sask','01934567899','Dhaka','tr107')

46. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br46','A8','Tanveer','01834567899','Dhaka','tr108')

47. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br47','A9','Siam','01734567899','Dhaka','tr109')

48. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br7','B7','Nafi','01734567870','Khulna','tr207')

49. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br8','B8','Raihan','01934567870','Khulna','tr208')

50. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br9','B9','Rashed','01834567870','Khulna','tr209')

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43. insert into Branch_Office(branch_id,Manager_id,Manager_name,Manager_Number,Address,Trasport_id)
values('br43','C6','Shikha','01914567899','Chittagong','tr487')

44. insert into Branch_Office(branch_id,Manager_id,Manager_name,Manager_Number,Address,Trasport_id)
values('br44','C7','Saima','01814567899','Chittagong','tr488')

45. insert into Branch_Office(branch_id,Manager_id,Manager_name,Manager_Number,Address,Trasport_id)
values('br45','A7','Sask','01934567899','Dhaka','tr107')

46. insert into Branch_Office(branch_id,Manager_id,Manager_name,Manager_Number,Address,Trasport_id)
values('br46','A8','Tanveer','01834567899','Dhaka','tr108')

47. insert into Branch_Office(branch_id,Manager_id,Manager_name,Manager_Number,Address,Trasport_id)
values('br47','A9','Siam','01734567899','Dhaka','tr109')

48. insert into Branch_Office(branch_id,Manager_id,Manager_name,Manager_Number,Address,Trasport_id)
values('br7','B7','Nafi','01734567870','Khulna','tr207')

49. insert into Branch_Office(branch_id,Manager_id,Manager_name,Manager_Number,Address,Trasport_id)
values('br8','B8','Raihan','01934567870','Khulna','tr208')
    
```

Results
Explain
Describe
Saved SQL
History

BRANCH_ID	MANAGER_ID	MANAGER_NAME	MANAGER_NUMBER	ADDRESS	TRASPORT_ID
br1	A1	Amob	01234567899	Dhaka	tr101
br2	A2	Azman	01234567999	Dhaka	tr102
br7	D9	Dipon	01238867870	Cumilla	tr303
br4	B4	tofiyeh	01234567880	Khulna	tr202
br5	B5	topu	01234567880	Khulna	tr203
br22	C2	Faihan	01234567299	Chittagong	tr402
br8	D7	Ria	01234577870	Cumilla	tr301
br9	D8	Parvez	01238867870	Cumilla	tr302
br3	B3	Hafiz	01234567990	Khulna	tr201
br10	A3	Poma	01338867870	Dhaka	tr103
br6	B6	Shanto	01234567870	Khulna	tr204
br11	C1	Amir	01234567199	Chittagong	tr401
br13	E3	Moriom	01234567993	Barisal	tr501
br14	E4	Tisha	01234567880	Barisal	tr502
br15	E5	Amy	01234567880	Barisal	tr503
br16	E6	Rownok	01234567870	Barisal	tr504
br19	F8	Polin	01238877870	Faridpur	tr602
br18	F7	Rumi	01234577770	Faridpur	tr601
br12	A4	Purob	01244567899	Dhaka	tr104
br21	B1	Elty	01214567899	Khulna	tr205
br23	B2	Isika	01114567899	Khulna	tr206
br24	C4	Rakib	01204567899	Chittagong	tr404
br25	C5	Robin	01014567899	Chittagong	tr405
br26	C6	Samem	01014567899	Chittagong	tr406
br20	C3	Poma	01338867870	Chittagong	tr403
br28	A5	Rakib	01204567199	Dhaka	tr105
br29	A6	Robin	01014567299	Dhaka	tr106
br30	E1	Sumon	01012567399	Barisal	tr505
br31	E2	Samira	01230567499	Barisal	tr506
br33	D6	Rifat	01243997899	Cumilla	tr306
br27	F9	Nirob	01235677870	Faridpur	tr603
br34	D5	Raju	01243977899	Cumilla	tr305
br35	F5	Punom	01332561770	Faridpur	tr605
br36	F6	Puja	01332562770	Faridpur	tr606
br37	F3	Hanif	01332561777	Faridpur	tr607
br38	F4	Habib	01332562778	Faridpur	tr608
br39	E7	Qurashi	01230568999	Barisal	tr507
br40	E8	Naruto	01230568999	Barisal	tr508
br32	F2	Prii	01332567870	Faridpur	tr604
br17	D2	Pius	01243987899	Cumilla	tr304
br41	D3	Akas	01221667899	Cumilla	tr307
br42	D4	Aveer	01222667899	Cumilla	tr308
br43	C6	Shikha	01914567899	Chittagong	tr407
br44	C7	Saima	01814567899	Chittagong	tr408
br45	A7	Sask	01934567899	Dhaka	tr107
br46	A8	Tanveer	01834567899	Dhaka	tr108
br47	A9	Siam	01734567899	Dhaka	tr109
br48	B7	Nafi	01704567870	Khulna	tr207
br49	B8	Raihan	01934567870	Khulna	tr208
br50	B9	Rashed	01834567870	Khulna	tr209

50 rows returned in 0.00 seconds [Download](#)

## 2. Transport:-

### SQL:-

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('tr106','10028','234528','Toyota')

---

7.insert into  
Transport(t\_id,d\_id,v\_registration,v\_name)values('tr107','10029','234529','Toyota')

---

8.insert into  
Transport(t\_id,d\_id,v\_registration,v\_name)values('tr108','10030','234530','Toyota')

---

9.insert into  
Transport(t\_id,d\_id,v\_registration,v\_name)values('tr109','10031','234531','Toyota')

---

10.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr201','1006','23456',  
23457','BUS')

---

11.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr304','10013','234513','BUS')

---

12.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr202','1007','23457','BUS')

---

13.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr203','1008','23458','BUS')

---

14.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr204','1009','23459','BUS')

---

15.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr205','10000','23400','BUS')

---

16.insert into  
Transport(t\_id,d\_id,v\_registration,v\_name)values('tr206','10032','234532','Toyota')

---

17.insert into  
Transport(t\_id,d\_id,v\_registration,v\_name)values('tr207','10033','234533','Toyota')

---

18.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr208','10034','234534','Toyota')

---

19.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr209','10035','234535','Toyota')

---

20.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr301','10010','234510,334510','BUS')

---

21.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr302','10011','234511 ,334511','BUS')

---

22.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr303','10012','234512,334512','BUS')

---

23.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr305','10014','234514','BUS')

---

24.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr306','10036','234536','Toyota')

---

25.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr307','10037','234537','Toyota')

---

26.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr308','10038','234538','Toyota')

---

27.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr401','100152','2345152','BUS')

---

28.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr402','100151','2345151','BUS')

---

29.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr403','10015','234515','BUS')

---

30.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr404','10016','234516','Corolla')

---

31.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr405','10017','234517','Corolla')

---

32.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr406','10039','234539','Premio')

---

33.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr407','10040','234540','Premio')

---

34.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr408','10041','234541','Premio')

---

35.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr501','10018','234518,334518','Corolla')

---

36.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr502','10019','234519','Corolla')

---

37.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr503','10020','234520','Corolla')

---

38.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr504','10021','234521','Corolla')

---

39.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr505','10022','234522','Corolla')

---

40.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr506','10042','234542,334542','Premio')

---

41.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr507','10043','234543','Premio')

---

42.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr508','10044','234544','Premio')

---

43.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr601','10023','234523','Corolla')

---

44.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr602','10024','234524','Corolla')

---

45.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr603','10025','234525','Corolla')

---

46.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr604','10026','234526','Corolla')

---

47.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr605','10027','234527','Corolla')

---

48.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr606','10045','234545','Premio')

49.insert into

Transport(t\_id,d\_id,v\_registration,v\_name)values('tr607','10046','234546','Premio')

50.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr608','10047','234547,33457','Premio')

## OUTPUT:-

ORACLE® Application Express

Welcome ARNOB (Logout)

Home Application Builder SQL Workshop Team Development Administration

Home > SQL Workshop > SQL Commands

Schema ARNOB

Autocommit Rows 50 Save Run

```
31. insert into Transport(t_id,d_id,v_registration,v_name)values('tr405','10017','234517','Corolla')
32. insert into Transport(t_id,d_id,v_registration,v_name)values('tr406','10039','234539','Premio')
33. insert into Transport(t_id,d_id,v_registration,v_name)values('tr407','10040','234540','Premio')
34. insert into Transport(t_id,d_id,v_registration,v_name)values('tr408','10041','234541','Premio')
35. insert into Transport(t_id,d_id,v_registration,v_name)values('tr501','10018','234518,334518','Corolla')
36. insert into Transport(t_id,d_id,v_registration,v_name)values('tr502','10019','234519','Corolla')
37. insert into Transport(t_id,d_id,v_registration,v_name)values('tr503','10020','234520','Corolla')
38. insert into Transport(t_id,d_id,v_registration,v_name)values('tr504','10021','234521','Corolla')
39. insert into Transport(t_id,d_id,v_registration,v_name)values('tr505','10022','234522','Corolla')
40. insert into Transport(t_id,d_id,v_registration,v_name)values('tr506','10042','234542,334542','Premio')
41. insert into Transport(t_id,d_id,v_registration,v_name)values('tr507','10043','234543','Premio')
42. insert into Transport(t_id,d_id,v_registration,v_name)values('tr508','10044','234544','Premio')
43. insert into Transport(t_id,d_id,v_registration,v_name)values('tr601','10023','234523','Corolla')
44. insert into Transport(t_id,d_id,v_registration,v_name)values('tr602','10024','234524','Corolla')
45. insert into Transport(t_id,d_id,v_registration,v_name)values('tr603','10025','234525','Corolla')
46. insert into Transport(t_id,d_id,v_registration,v_name)values('tr604','10026','234526','Corolla')
47. insert into Transport(t_id,d_id,v_registration,v_name)values('tr605','10027','234527','Corolla')
48. insert into Transport(t_id,d_id,v_registration,v_name)values('tr606','10045','234545','Premio')
49. insert into Transport(t_id,d_id,v_registration,v_name)values('tr607','10046','234546','Premio')
50. insert into Transport(t_id,d_id,v_registration,v_name)values('tr608','10047,33457','234547,33457','Premio')
```

Results Explain Describe Saved SQL History

T_ID	D_ID	V_REGISTRATION	V_NAME
tr101	1001	23451	BUS
tr102	1002	23452	BUS
tr103	1003	23453	BUS
tr104	1004	23454, 33454	BUS
tr105	1005	23455, 33455	BUS
tr106	10028	234528	Toyota
tr107	10029	234529	Toyota
tr108	10030	234530	Toyota
tr109	10031	234531	Toyota
tr201	1006	23456, 23457	BUS
tr304	10013	234513	BUS
tr202	1007	23457	BUS
tr203	1008	23458	BUS
tr204	1009	23459	BUS
tr205	10000	23400	BUS
tr206	10032	234532	Toyota
tr207	10033	234533	Toyota
tr208	10034	234534	Toyota
tr209	10035	234535	Toyota
tr301	10010	234510, 334510	BUS
tr302	10011	234511, 334511	BUS
tr303	10012	234512, 334512	BUS
tr305	10014	234514	BUS
tr306	10036	234536	Toyota
tr307	10037	234537	Toyota
tr308	10038	234538	Toyota
tr401	100152	2345152	BUS
tr402	100151	2345151	BUS
tr403	10015	234515	BUS
tr404	10016	234516	Corolla
tr405	10017	234517	Corolla
tr406	10039	234539	Premio
tr407	10040	234540	Premio
tr408	10041	234541	Premio
tr501	10018	234518, 334518	Corolla
tr502	10019	234519	Corolla
tr503	10020	234520	Corolla
tr504	10021	234521	Corolla
tr505	10022	234522	Corolla
tr506	10042	234542, 334542	Premio
tr507	10043	234543	Premio
tr508	10044	234544	Premio
tr601	10023	234523	Corolla
tr602	10024	234524	Corolla
tr603	10025	234525	Corolla
tr604	10026	234526	Corolla
tr605	10027	234527	Corolla
tr606	10045	234545	Premio
tr607	10046	234546	Premio
tr608	10047, 33457	234547, 33457	Premio

50 rows returned in 0.00 seconds Download

Workspace: ARNOB User: ARNOB

Application Express 4.0.2.00.09

Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.



### 3.Drivers:-

#### SQL:-

1. insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1001','Arnob','11221',01714321451)
2. insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1002','Nirob','11222',01714321452)
3. insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1003','Farhan','11223',01714321453)
4. insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1004','shameem','11224',01714321454)
5. insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1005','rakib','11225',01714321455)
6. insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1006','polin','11226',01714321456)
7. insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1007','shanto','11227',01714321457)
8. insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1008','dipon','11228',01714321458)
9. insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1009','topu','11229',01714321459)
- 10.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1010','robin','11230',01714321460)
- 11.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1011','hamza','11231',01714321461)
- 12.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1012','reed','11232',01714321462)
- 13.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1013','mahbub','11233',01714321463)
- 14.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1014','Arnob','11234',01714321464)
- 15.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1015','dipon','11235',01714321465)
- 16.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1016','parbez','11236',01714321466)



17.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1017','imon','11237',01714321467)  
18.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1018','nirob','11238',01714321468)  
19.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1019','farhan','11239',01714321469)  
20.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1020','polin','11240',01714321470)  
21.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1021','rakibul','11241',01714321471)  
22.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1022','pranto','11242',01714321472)  
23.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1023','alhaz','11243',01714321473)  
24.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1024','ashik','11244',01714321474)  
25.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1025','jahid','11245',01714321475)  
26.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1026','abir','11246',01714321476)  
27.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1027','nishat','11247',01714321477)  
28.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1028','dipon','11248',01714321478)  
29.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1029','topu','11249',01714321479)  
30.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1030','robin','11250',01714321480)  
31.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1031','monir','11251',01714321481)  
32.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1032','arif','11252',01714321482)  
33.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1033','ali','11253',01714321483)  
34.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1034','Arnob','11254',01714321484)

35.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1035','farid','11255',01714321485)  
36.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1036','parbez','11256',01714321486)  
37.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1037','imon','11257',01714321487)  
38.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1038','polash','11258',01714321488)  
39.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1039','farhan','11259',01714321489)  
40.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1040','amin','11260',01714321490)  
41.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1041','monir','11261',01714321491)  
42.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1042','arif','11262',01714321492)  
43.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1043','ali','11263',01714321493)  
44.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1044','Arnob','11264',01714321494)  
45.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1045','farid','11265',01714321495)  
46.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1046','parbez','11266',01714321496)  
47.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1047','imon','11267',01714321497)  
48.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1048','polash','11268',01714321498)  
49.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1049','farhan','11269',01714321499)  
50.insert into drivers(d\_id,d\_name,l\_num,d\_phn)  
values('1050','amin','11270',01714321500)

# OUTPUT:-

ORACLE® Application Express

Welcome ARNOB ( [Logout](#) )

Home Application Builder ▼ SQL Workshop ▼ Team Development ▼ Administration ▼

Home > SQL Workshop > SQL Commands

Schema **ARNOB** ▼     Help

☒ Autocommit Rows 50   Save  Run

```
31. insert into drivers(d_id,d_name,l_num,d_phn) values('1031','monir','11251',01714321481)
32. insert into drivers(d_id,d_name,l_num,d_phn) values('1032','arif','11252',01714321482)
33. insert into drivers(d_id,d_name,l_num,d_phn) values('1033','ali','11253',01714321483)
34. insert into drivers(d_id,d_name,l_num,d_phn) values('1034','Arnob','11254',01714321484)
35. insert into drivers(d_id,d_name,l_num,d_phn) values('1035','farid','11255',01714321485)
36. insert into drivers(d_id,d_name,l_num,d_phn) values('1036','parbez','11256',01714321486)
37. insert into drivers(d_id,d_name,l_num,d_phn) values('1037','imon','11257',01714321487)
38. insert into drivers(d_id,d_name,l_num,d_phn) values('1038','polash','11258',01714321488)
39. insert into drivers(d_id,d_name,l_num,d_phn) values('1039','farhan','11259',01714321489)
40. insert into drivers(d_id,d_name,l_num,d_phn) values('1040','amin','11260',01714321490)
41. insert into drivers(d_id,d_name,l_num,d_phn) values('1041','monir','11261',01714321491)
42. insert into drivers(d_id,d_name,l_num,d_phn) values('1042','arif','11262',01714321492)
43. insert into drivers(d_id,d_name,l_num,d_phn) values('1043','ali','11263',01714321493)
44. insert into drivers(d_id,d_name,l_num,d_phn) values('1044','Arnob','11264',01714321494)
45. insert into drivers(d_id,d_name,l_num,d_phn) values('1045','farid','11265',01714321495)
46. insert into drivers(d_id,d_name,l_num,d_phn) values('1046','parbez','11266',01714321496)
```

Results Explain Describe Saved SQL History

D_ID	D_NAME	L_NUM	D_PHN
1001	Arnob	11221	1714321451
1002	Nirob	11222	1714321452
1003	Farhan	11223	1714321453
1004	shameem	11224	1714321454
1005	rakib	11225	1714321455
1006	polin	11226	1714321456
1007	shanto	11227	1714321457
1008	dipon	11228	1714321458
1009	topu	11229	1714321459
1010	robin	11230	1714321460
1011	hamza	11231	1714321461
1012	reed	11232	1714321462
1013	mahbub	11233	1714321463
1014	Arnob	11234	1714321464
1015	dipon	11235	1714321465
1016	parbez	11236	1714321466
1017	imon	11237	1714321467
1018	nirob	11238	1714321468
1019	farhan	11239	1714321469
1020	polin	11240	1714321470
1021	rakibul	11241	1714321471
1022	pranto	11242	1714321472
1023	alhaz	11243	1714321473
1024	ashik	11244	1714321474
1025	jahid	11245	1714321475
1026	abir	11246	1714321476
1027	nishat	11247	1714321477
1028	dipon	11248	1714321478
1029	topu	11249	1714321479
1030	robin	11250	1714321480
1031	monir	11251	1714321481
1032	arif	11252	1714321482
1033	ali	11253	1714321483
1034	Arnob	11254	1714321484
1035	farid	11255	1714321485
1036	parbez	11256	1714321486
1037	imon	11257	1714321487
1038	polash	11258	1714321488
1039	farhan	11259	1714321489
1040	amin	11260	1714321490
1041	monir	11261	1714321491
1042	arif	11262	1714321492
1043	ali	11263	1714321493
1044	Arnob	11264	1714321494
1045	farid	11265	1714321495
1046	parbez	11266	1714321496
1047	imon	11267	1714321497
1048	polash	11268	1714321498
1049	farhan	11269	1714321499
1050	amin	11270	1714321500

50 rows returned in 0.00 seconds [Download](#)

Application Express 4.0.2.00.09

Workspace: ARNOB User: ARNOB

Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

# QUERY WRITTING

## Query:-

1.

```
select BRANCH_ID,MANAGER_ID,TRASPORT_ID  
from Branch_office  
where ADDRESS='Khulna'
```

## output:-

ORACLE Application Express Welcome ARNOB (Logout)

Home Application Builder SQL Workshop Team Development Administration

Home > SQL Workshop > SQL Commands Schema ARNOB

☒ Autocommit Rows 50 Save Run

```
select BRANCH_ID,MANAGER_ID,TRASPORT_ID  
from Branch_office  
where ADDRESS='Khulna'
```

Results Explain Describe Saved SQL History

BRANCH_ID	MANAGER_ID	TRASPORT_ID
br4	B4	tr202
br5	B5	tr203
br3	B3	tr201
br6	B6	tr204
br21	B1	tr205
br23	B2	tr206
br48	B7	tr207
br49	B8	tr208
br50	B9	tr209

9 rows returned in 0.00 seconds Download

Workspace: ARNOB User: ARNOB Application Express 4.0.2.00.09  
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## ORDER BY:-

2.

```
select BRANCH_ID,MANAGER_ID,MANAGER_NAME  
from Branch_office
```

order by MANAGER\_ID asc

Output:-

**ORACLE** Application Express Welcome ARNOB ( [Logout](#) )

Home Application Builder SQL Workshop Team Development Administration

Home > SQL Workshop > SQL Commands Schema **ARNOB** Help

☒ Autocommit Rows **50** Save Run

```
select BRANCH_ID,MANAGER_ID,MANAGER_NAME
from Branch_office
order by MANAGER_ID asc
```

**Results** Explain Describe Saved SQL History

BRANCH_ID	MANAGER_ID	MANAGER_NAME
br1	A1	Arnob
br2	A2	Azman
br10	A3	Porna
br12	A4	Purob
br28	A5	Rakib
br29	A6	Robin
br45	A7	Sask
br46	A8	Tanveer
br47	A9	Siam
br21	B1	Efty
br23	B2	Isika
br3	B3	Hafiz
br4	B4	tofayel
br5	B5	topu
br6	B6	Shanto
br48	B7	Nafi
br49	B8	Raihan
br50	B9	Rashed
br11	C1	Amir
br22	C2	Farhan
br20	C3	Porna
br24	C4	Rakib
br25	C5	Robin
br26	C6	Samem
br43	C6	Shikha
br44	C7	Saima
br17	D2	Pius
br41	D3	Akas
br42	D4	Aveer
br34	D5	Raju
br33	D6	Rifat
br8	D7	Ria
br9	D8	Parvez
br7	D9	Dipon
br30	E1	Sumon
br31	E2	Samira
br13	E3	Moriom
br14	E4	Tisha
br15	E5	Amy
br16	E6	Rownok
br39	E7	Qurashi
br40	E8	Naruto
br32	F2	Priti
br37	F3	Hanif
br38	F4	Habib
br35	F5	Punom
br36	F6	Puja
br18	F7	Rumi
br19	F8	Polin
br27	F9	Nirob

50 rows returned in 0.00 seconds [Download](#)

Application Express 4.0.2.00.09

Workspace: ARNOB User: ARNOB Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

### GROUP BY:-

3.

```
select V_NAME,count(T_ID) as TR_Number
```

```
from Transport
```

```
group by V_NAME
```

### Output:-

The screenshot shows the Oracle Application Express interface. At the top, there's a navigation bar with tabs: Home, Application Builder, SQL Workshop (selected), Team Development, and Administration. Below this is a breadcrumb trail: Home > SQL Workshop > SQL Commands. The right side of the header shows 'Welcome ARNOB (Logout)' and a 'Schema' dropdown set to 'ARNOB'. Below the header is a toolbar with 'Autocommit' checked, 'Rows' set to 50, and 'Save' and 'Run' buttons. The main area contains the SQL query: 

```
select V_NAME,count(T_ID) as TR_Number
from Transport
group by V_NAME
```

 Below the query editor, there are tabs for 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History'. The 'Results' tab is active, displaying a table with 4 rows. The table has two columns: 'V\_NAME' and 'TR\_NUMBER'. The data rows are: Corolla (12), Toyota (11), BUS (18), and Premio (9). Below the table, it says '4 rows returned in 0.00 seconds' and there is a 'Download' link. At the bottom of the interface, there's a footer with 'Workspace: ARNOB User: ARNOB' and 'Application Express 4.0.2.00.09 Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.'

V_NAME	TR_NUMBER
Corolla	12
Toyota	11
BUS	18
Premio	9

### STRING OPARATION:-

4.

```
select D_ID,L_NUM,D_NAME
```

```
from drivers
```

```
where D_NAME like '%Arn%'
```

output:-

**ORACLE** Application Express Welcome ARNOB ( [Logout](#) )

Home Application Builder SQL Workshop Team Development Administration

Home > SQL Workshop > SQL Commands Schema ARNOB Help

☒ Autocommit Rows 50 Save Run

```
select D_ID,L_NUM,D_NAME
from drivers
where D_NAME like '%Arn%'
```

**Results** Explain Describe Saved SQL History

D_ID	L_NUM	D_NAME
1001	11221	Arnob
1014	11234	Arnob
1034	11254	Arnob
1044	11264	Arnob

4 rows returned in 0.00 seconds [Download](#)

Workspace: ARNOB User: ARNOB Application Express 4.0.2.00.09  
Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

DELETION:-

5.

delete Branch\_office

where BRANCH\_ID='br7' and MANAGER\_NAME='Dipon'

☒ Autocommit Rows 10 Save Run

```
delete Branch_office
where BRANCH_ID='br7' and MANAGER_NAME='Dipon'
```

**Results** Explain Describe Saved SQL History

1 row(s) deleted.

0.03 seconds

BEFOR DELETE:-

Results	Explain	Describe	Saved SQL	History	
BRANCH_ID	MANAGER_ID	MANAGER_NAME	MANAGER_NUMBER	ADDRESS	TRASPORT_ID
br1	A1	Arnob	01234567899	Dhaka	tr101
br2	A2	Azman	01234567999	Dhaka	tr102
br7	D9	Dipon	01236667870	Cumilla	tr303
br4	B4	tofayel	01234567880	Khulna	tr202
br5	B5	topu	01234567680	Khulna	tr203
br22	C2	Farhan	01234567299	Chittagong	tr402
br8	D7	Ria	01234577870	Cumilla	tr301

AFTER DELETE:-

Results

Explain

Describe

Saved SQL

History

BRANCH_ID	MANAGER_ID	MANAGER_NAME	MANAGER_NUMBER	ADDRESS	TRASPORT_ID
br1	A1	Arnob	01234567899	Dhaka	tr101
br2	A2	Azman	01234567999	Dhaka	tr102
br4	B4	tofayel	01234567880	Khulna	tr202
br5	B5	topu	01234567680	Khulna	tr203
br22	C2	Farhan	01234567299	Chittagong	tr402
br8	D7	Ria	01234577870	Cumilla	tr301
br9	D8	Parvez	01236567870	Cumilla	tr302
br3	B3	Hafiz	01234567990	Khulna	tr201
br10	A3	Porna	01336567870	Dhaka	tr103



UPDATE:-



6.

update Transport

set V\_NAME='Mini-Van'

where T\_ID='tr106' and D\_ID='10028'

---

☒ Autocommit   Rows    Save Run

```
update Transport
set V_NAME='Mini-Van'
where T_ID='tr106' and D_ID='10028'
```

**Results**   Explain   Describe   Saved SQL   History

---

1 row(s) updated.

0.01 seconds

---

[BEFORE UPDATE:-](#)

Results	Explain	Describe	Saved SQL	History
T_ID	D_ID	V_REGISTRATION	V_NAME	
tr101	1001	23451	BUS	
tr102	1002	23452	BUS	
tr103	1003	23453	BUS	
tr104	1004	23454, 33454	BUS	
tr105	1005	23455, 33455	BUS	
tr106	10028	234528	Toyota	
tr107	10029	234529	Toyota	
tr108	10030	234530	Toyota	
tr109	10031	234531	Toyota	
tr201	1006	23456, 23457	BUS	

[AFTER UPDATE:-](#)

Results	Explain	Describe	Saved SQL	History
T_ID	D_ID	V_REGISTRATION	V_NAME	
tr101	1001	23451	BUS	
tr102	1002	23452	BUS	
tr103	1003	23453	BUS	
tr104	1004	23454, 33454	BUS	
tr105	1005	23455, 33455	BUS	
tr106	10028	234528	Mini-Van	
tr107	10029	234529	Toyota	
tr108	10030	234530	Toyota	
tr109	10031	234531	Toyota	
tr201	1006	23456, 23457	BUS	
tr202	10010	234510	BUS	

## NESTED QUERY:-

7.

```
select T_id, name from Transport
where T_id in(select trasport_id
              from Branch_office
              where address='Dhaka' )
```

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☒ Autocommit Rows 50 Save Run

```
select * from Branch_office
select * from Transport
select * from drivers

select T_id,D_id,v_name from Transport
where T_id in(select trasport_id
              from Branch_office
              where address='Dhaka' )
```

Results Explain Describe Saved SQL History

T_ID	D_ID	V_NAME
tr101	1001	BUS
tr102	1002	BUS
tr103	1003	BUS
tr104	1004	BUS
tr105	1005	BUS
tr106	10028	Toyota
tr107	10029	Toyota
tr108	10030	Toyota
tr109	10031	Toyota

9 rows returned in 0.00 seconds Download

Application Express 4.0.2.00.09

Workspace: ARNOB User: ARNOB Language: en | Copyright © 1999, 2010, Oracle. All rights reserved.

8.

```
select T_id,D_id,v_name from Transport
       where v_name='Corolla' or
       T_id in(select trasport_id
               from Branch_office
               where address='Cumilla' )
```

☒ Autocommit Rows 50  

```
select * from Branch_office
select * from Transport
select * from drivers

select T_id,D_id,V_name from Transport
where V_name='Corolla' or T_id in(select transport_id
                                from Branch_office
                                where address='Cumilla'
                                )
```

[Results](#) [Explain](#) [Describe](#) [Saved SQL](#) [History](#)

T_ID	D_ID	V_NAME
tr304	10013	BUS
tr301	10010	BUS
tr302	10011	BUS
tr303	10012	BUS
tr305	10014	BUS
tr306	10036	Toyota
tr307	10037	Toyota
tr308	10038	Toyota
tr404	10016	Corolla
tr405	10017	Corolla
tr501	10018	Corolla
tr502	10019	Corolla
tr503	10020	Corolla
tr504	10021	Corolla
tr505	10022	Corolla
tr601	10023	Corolla
tr602	10024	Corolla
tr603	10025	Corolla
tr604	10026	Corolla
tr605	10027	Corolla

20 rows returned in 0.00 seconds [Download](#)9.

```
select BRANCH_ID, MANAGER_ID,MANAGER_NAME
```

```
from Branch_office
```

```
where ADDRESS='Dhaka' and
```

```
TRASPORT_ID in(select T_ID
```

```
from Transport where V_REGISTRATION='23453' and D_id in(
```

```
select D_ID
```

```
from drivers
```

```
where L_NUM='11223'))
```

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Schema ARNOB ▾



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☒ Autocommit

Rows

50 ▾



Save

Run

```
select BRANCH_ID, MANAGER_ID,MANAGER_NAME
from Branch_office
where ADDRESS='Dhaka' and TRASPORT_ID in(
    select T_ID
    from Transport
    where V_REGISTRATION='23453' and D_id in(select D_ID
        from drivers
        where L_NUM='11223'))
```

Results Explain Describe Saved SQL History

BRANCH_ID	MANAGER_ID	MANAGER_NAME
br10	A3	Porna

1 rows returned in 0.01 seconds [Download](#)[JOIN:-](#)[FULL JOIN:-](#)10.

```
select MANAGER_ID,D_ID,V_NAME
from Branch_office,Transport
where Banch_office.TRASPORT_ID=Transport.T_ID
```

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Schema: ARNOB

☒ Autocommit Rows: 50 [Save](#) [Run](#)

```
select MANAGER_ID,D_ID,V_NAME,ADDRESS
from Branch_office,Transport
where Branch_office.TRASPORT_ID=Transport.T_ID
```

[Results](#) | [Explain](#) | [Describe](#) | [Saved SQL](#) | [History](#)

MANAGER_ID	D_ID	V_NAME	ADDRESS
A1	1001	BUS	Dhaka
A2	1002	BUS	Dhaka
A3	1003	BUS	Dhaka
A4	1004	BUS	Dhaka
A5	1005	BUS	Dhaka
A6	10028	Mini-Van	Dhaka
A7	10029	Toyota	Dhaka
A8	10030	Toyota	Dhaka
A9	10031	Toyota	Dhaka
B3	1006	BUS	Khulna
B4	1007	BUS	Khulna
B5	1008	BUS	Khulna
B6	1009	BUS	Khulna
B1	10000	BUS	Khulna
B2	10032	Toyota	Khulna
B7	10033	Toyota	Khulna
B8	10034	Toyota	Khulna
B9	10035	Toyota	Khulna
D7	10010	BUS	Cumilla
D8	10011	BUS	Cumilla
D2	10013	BUS	Cumilla
D5	10014	BUS	Cumilla
D6	10036	Toyota	Cumilla
D3	10037	Toyota	Cumilla
D4	10038	Toyota	Cumilla
C1	100152	BUS	Chittagong
C2	100151	BUS	Chittagong
C3	10015	BUS	Chittagong
C4	10016	Corolla	Chittagong
C5	10017	Corolla	Chittagong
C6	10039	Premio	Chittagong
C6	10040	Premio	Chittagong
C7	10041	Premio	Chittagong
E3	10018	Corolla	Barisal
E4	10019	Corolla	Barisal
E5	10020	Corolla	Barisal
E6	10021	Corolla	Barisal
E1	10022	Corolla	Barisal
E2	10042	Premio	Barisal
E7	10043	Premio	Barisal
E8	10044	Premio	Barisal
F7	10023	Corolla	Faridpur
F8	10024	Corolla	Faridpur
F9	10025	Corolla	Faridpur
F2	10026	Corolla	Faridpur
F5	10027	Corolla	Faridpur
F6	10045	Premio	Faridpur
F3	10046	Premio	Faridpur
F4	10047	Premio	Faridpur

49 rows returned in 0.00 seconds [Download](#)

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## CONDITIONAL JOIN:-

11.

```
select MANAGER_ID,D_ID,V_NAME,ADDRESS
```

```
from Branch_office,Transport
```

```
where Branch_office.TRASPORT_ID=Transport.T_ID and ADDRESS='Dhaka'
```

Results Explain Describe Saved SQL History

9 rows returned in 0.01 seconds [Download](#)

[VIEW:-](#)

[CREATE VIEW:-](#)

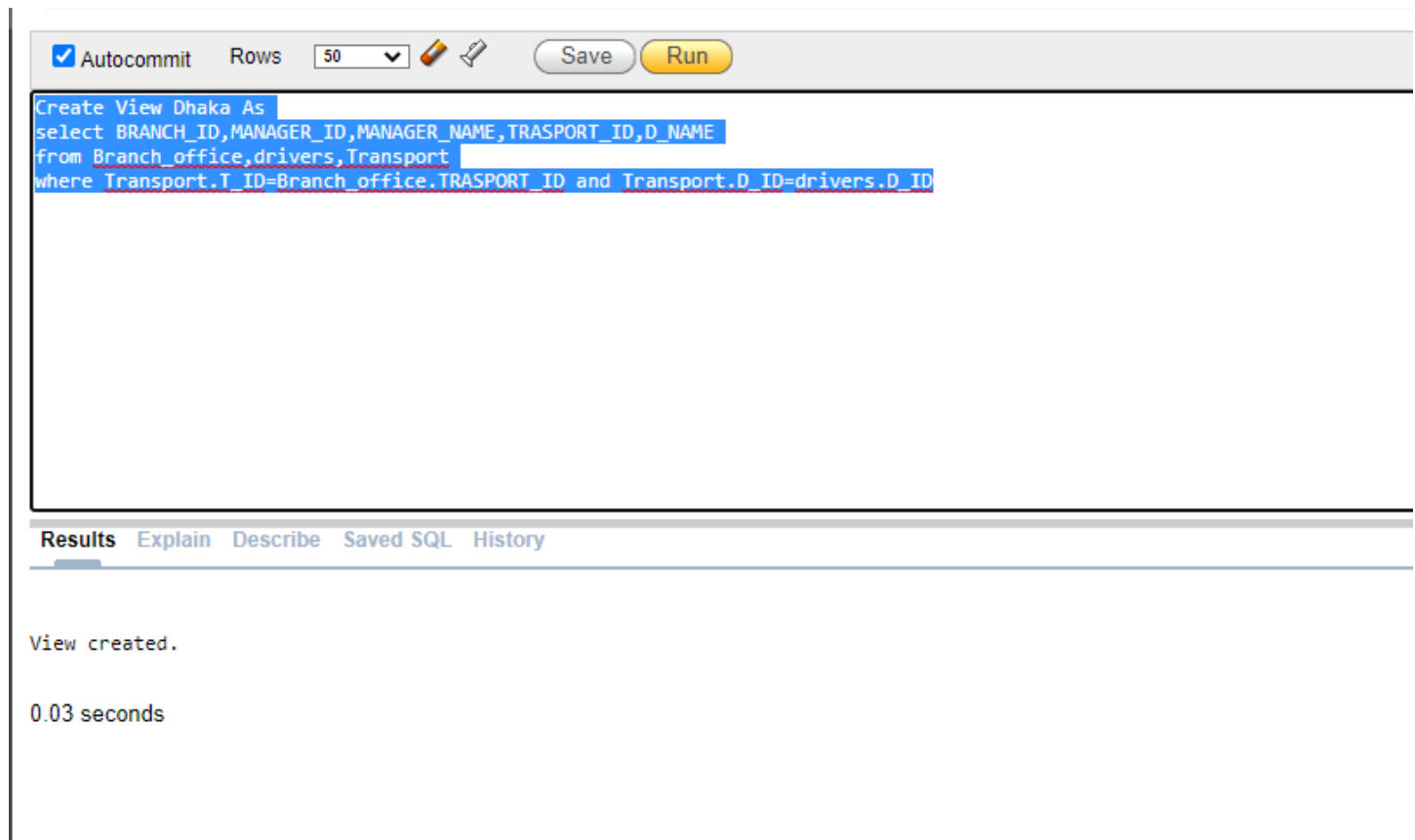
12.

Create View Dhaka As

```
select BRANCH_ID,MANAGER_ID,MANAGER_NAME,TRASPORT_ID,D_NAME
```

```
from Branch_office,drivers,Transport
```

```
where Transport.T_ID=Branch_office.TRASPORT_ID and Transport.D_ID=drivers.D_ID
```



The screenshot shows a SQL IDE interface. At the top, there is a toolbar with a checked 'Autocommit' checkbox, a 'Rows' dropdown set to '50', and 'Save' and 'Run' buttons. Below the toolbar, the SQL editor contains the following text:

```
Create View Dhaka As  
select BRANCH_ID,MANAGER_ID,MANAGER_NAME,TRASPORT_ID,D_NAME  
from Branch_office,drivers,Transport  
where Transport.T_ID=Branch_office.TRASPORT_ID and Transport.D_ID=drivers.D_ID
```

Below the editor, there is a tabbed interface with 'Results', 'Explain', 'Describe', 'Saved SQL', and 'History' tabs. The 'Results' tab is active and displays the message 'View created.' and the execution time '0.03 seconds'.

[SHOW VIEW:-](#)



13.

select \* from Dhaka

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☒ Autocommit Rows 50 Save Run

```
select *  
from Dhaka
```

**Results** Explain Describe Saved SQL History

BRANCH_ID	MANAGER_ID	MANAGER_NAME	TRASPORT_ID	D_NAME
br1	A1	Arnob	tr101	Arnob
br2	A2	Azman	tr102	Nirob
br10	A3	Porna	tr103	Farhan
br12	A4	Purob	tr104	shameem
br28	A5	Rakib	tr105	rakib
br3	B3	Hafiz	tr201	polin
br4	B4	tofayel	tr202	shanto
br5	B5	topu	tr203	dipon
br6	B6	Shanto	tr204	topu

9 rows returned in 0.01 seconds [Download](#)

Workspace: ARNOB User: ARNOB Application Express 4.0.2.00.09  
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# RELATIONAL ALGEBRA

1. Find Manger Name who are work in 'Dhaka'?

=>  $\pi$  Manager\_name( $\ell$  Address='Dhaka'(Branch\_office))

2.Find the Branch ID where Manager Name is 'Arnob' and located in 'Dhaka'?

=>  $\pi$  Branch\_ID( $\ell$  Manager\_name='Arnob'  $\wedge$  Address='Dhaka' (Branch\_office))

3. Find Those Manager who only Manages 'Bus'?

=>  $\pi$  Manager\_ID,Manager\_Name(  $\pi$  TRASPORT\_ID((Branch\_office)  $\bowtie$  (  $\pi$  Tr\_ID ( $\ell$  V\_name='Bus' (Transport) ) ) )

4.Find The Driver Who's Licences is 11227 or Name is 'Shanto'?

=>  $\pi$  D\_Id,D\_Name (  $\ell$  L\_Num='11227'  $\vee$  D\_Name='Shanto'(Drivers))

5.Find The Driver who only drive's bus?

=>  $\pi$  D\_ID, D\_Name (  $\pi$  D-ID (  $\ell$  V\_Name="Bus" (Transfort))  $\bowtie$  (Drivers))

6.Find the Branch\_ID and Manager name who manage "Premio" and Driver name is "Nirob"?

=>  $\pi$  Branch\_ID,manager\_Name (  $\pi$  Transfort\_ID (Branch\_Office))  $\bowtie$  (  $\pi$  Tr\_id (  $\pi$  D\_ID (  $\ell$  V\_Name="Premio" (Transport)) )  $\bowtie$  (  $\pi$  D-ID (  $\ell$  D\_name="Nirob" (Drivers)))

7.Find All the Registration no. For Bus?

=>  $\pi$  V\_Registratoin(  $\ell$  V\_Name='Bus' (Transport) )

8.Find the Name Of drivers's who's D\_ID is between 1001 to 1009?

=>  $\pi$  D\_Name (  $\ell$  D\_ID > 1000 and D\_ID<1010 (drivers))

9.Find the manager Id who only manage "Toyota" Drivers?

=> (  $\pi$  Manager\_ID, D\_ID (Branch\_office)) / (  $\pi$  D\_ID(  $\ell$  V\_Name ="Toyoto"(Drivers))

10.Find D\_ID and Name who drivers Bus and Also Registration No is not 23452 ?

=>  $\pi$  D\_ID, Name ((  $\pi$  D\_ID (Drivers))  $\bowtie$  (  $\pi$  D\_ID (  $\ell$  V\_Registratoin  $\neq$  23452  $\wedge$  V\_name ="Bus" (Transfort)))

# NORMALIZATION

## Branch OFFICE Table:-

### 1NF:-

The official qualification for 1NF are:

- 1.Each attribute name must be unique.
- 2.Each attribute value must be single.
- 3.Each row must be unique.
- 4.There is no repeating groups.

Example:

BRANCE_ID	M_ID	M_NAME	M_NUM	ADDRES	TRANSPORT_ID
br1	A1	Arnob	0123456899	dhaka	Tr101
Br2	A2	Azman	0123456999	dhaka	Tr102

IN my table there is no repeating name,attributes,row & group.It has already 1NF.

### 2NF:-

The official qualification for 2NF are:

- 1.The table already in 1NF.
- 2.All nonkey attributes are fully dependent on the primary key.
- 3.All partial dependencies are remove to place in another table.

M_ID	ADDRESS	S_no
A1	dhaka	1
A2	dhaka	2

D9	Cumilla	3
B4	khulna	4
B5	khulna	5
C2	chittagong	6
D7	Cumilla	7
D8	Cumilla	8
B3	khulna	9

BRANCE_ID	M_NUM	M_NUM	TRANSPORT_ID	S_no
br1	01234567899	01234567899	Tr101	1
Br2	01234567999	01234567999	Tr102	2
Br7	01236667870	01236667870	Tr303	3
Br4	01234567880	01234567880	Tr202	4
Br5	01234567670	01234567670	Tr203	5
Br22	01234567299	01234567299	Tr402	6
Br8	01234567870	01234567870	Tr301	7
Br9	01236567870	01236567870	Tr 302	8
Br3	01234567990	01234567990	Tr201	9

### 3NF:-

The official qualification for 3NF are:

- 1.The table already in 2NF.
- 2.Nonprimary key attributes do not depends on other nonprimary key attributes.
- 3.All transitive dependencies are remove to place in another table.

M_ID	M_NUM	TRANSPORT_ID	S_no
A1	01234567899	Tr101	1
A2	01234567999	Tr102	2

D9	01236667870	Tr303	3
B4	01234567880	Tr202	4
B5	01234567670	Tr203	5
C2	01234567299	Tr402	6
D7	01234567870	Tr301	7
D8	01236567870	Tr 302	8
B3	01234567990	Tr201	9

BRANCE_ID	M_NAME	ADDRESS	S_no
br1	Arnob	dhaka	1
Br2	Azman	dhaka	2
Br7	dipon	Cumilla	3
Br4	tofayel	khulna	4
Br5	topu	khulna	5
Br22	farhan	chittagong	6
Br8	ria	Cumilla	7
Br9	parvez	Cumilla	8
Br3	hafiz	khulna	9

## **Drivers Table:-**

### 1NF

The official qualification for 1NF are:

1. Each attribute name must be unique.
2. Each attribute value must be single.
3. Each row must be unique.
4. There is no repeating groups.

Example:

D_id	D_name	L_id	D_phn
1001	arnob	11221	01714311451

1002	nirob	11222	01714311452
------	-------	-------	-------------

IN my table there is no repeating name, attributes, row & group. It has already 1NF.

## 2NF

The official qualification for 2NF are:

1. The table already in 1NF.
2. All nonkey attributes are fully dependent on the primary key.
3. All partial dependencies are removed to place in another table.

D_ID	D_NAME	L_NUM	D_PHN
1001	Arnob	112211	1714321451
1002	Nirob	112212	1714321452
1003	Farhan	112213	1714321453
1004	shameem	112214	1714321454
1005	rakib	112215	1714321455
1006	polin	112216	1714321456
1007	Shanto	112217	1714321457
1008	Dipon	112218	1714321458
1009	topu	112219	1714321459

IN this table All nonkey attributes are fully dependent on the primary key and there has no partial dependencies...So this table already in 2NF.

## 3NF

The official qualification for 3NF are:

1. The table already in 2NF.
2. Nonprimary key attributes do not depend on other nonprimary key attributes.
3. All transitive dependencies are removed to place in another table.

L_NUM	D_PHN	S_no
112211	1714321451	1

112212	1714321452	2
112213	1714321453	3
112214	1714321454	4
112215	1714321455	5
112216	1714321456	6
112217	1714321457	7
112218	1714321456	8
112219	1714321459	9

D_ID	D_NAME	S_no
1001	Arnob	1
1002	Nirob	2
1003	Farhan	3
1004	shameem	4
1005	rakib	5
1006	polin	6
1007	Shanto	7
1008	Dipon	8
1009	topu	9

## Transport Table:-

### 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

### 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

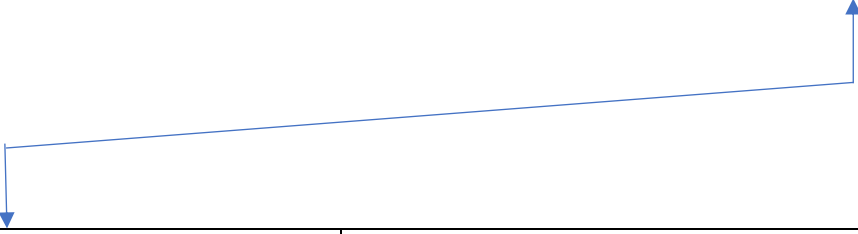


## 2NF

The official qualification for 2NF are:

4. The table already in 1NF.
5. All nonkey attributes are fully dependent on the primary key.
6. All partial dependencies are remove to place in another table.

<b>T_id</b>	<b>D_id</b>	<b>V_Reregistration</b>	<b>V_name</b>
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



<b>S_NO</b>	<b>V_Name</b>
1	Bus
2	Corolla
3	Toyota

### 3NF

The official qualification for 3NF are:

4. The table already in 2NF.
5. Nonprimary key attributes do not depends on other nonprimary key attributes.
6. All transitive dependencies are remove to place in another table.

<b>T_id</b>	<b>D_id</b>	<b>V_Reregistration</b>	<b>V_name</b>
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.