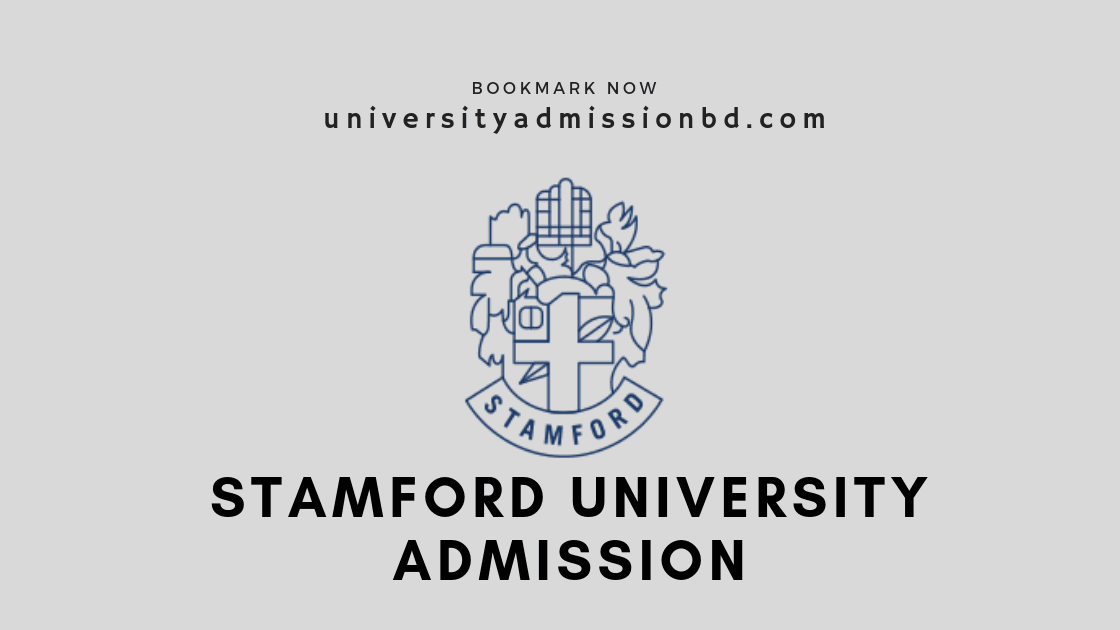
***Project Report***



Code : CSI\_224

Title : {Database Mamagement 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**

Drive

Own

Has

Transport

Branch\_Office

Drivers

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),

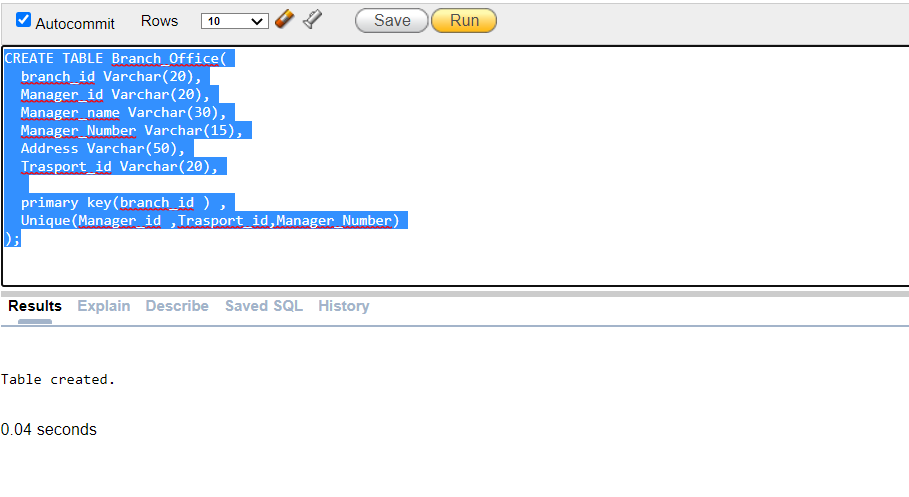
Trasport\_id Varchar(20),

primary key(branch\_id ) ,

Unique(Manager\_id ,Trasport\_id,Manager\_Number)

);

OUTPUT:-



2.Transport:-

SQL:-

CREATE TABLE Transport(

t\_id Varchar(20),

d\_id Varchar(10),

v\_registration Varchar(30),

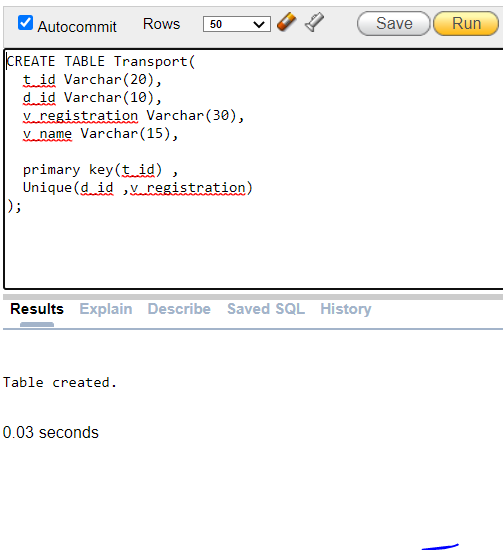
v\_name Varchar(15),

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:-

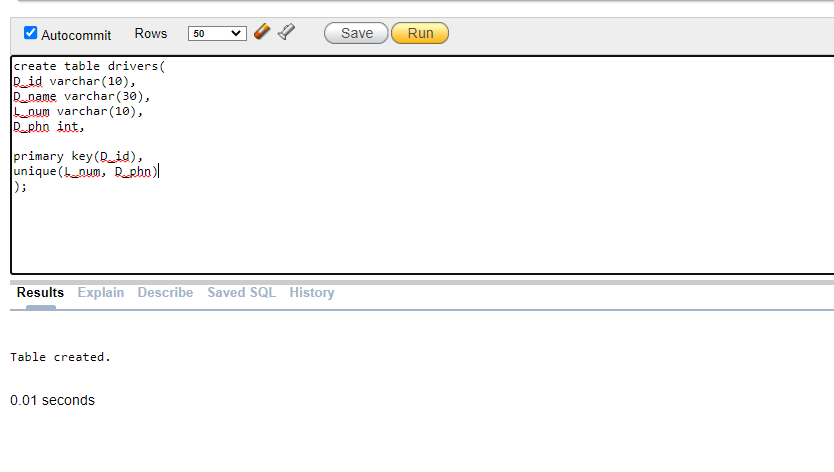


TABLE DATA INSERT

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','Moriom','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')

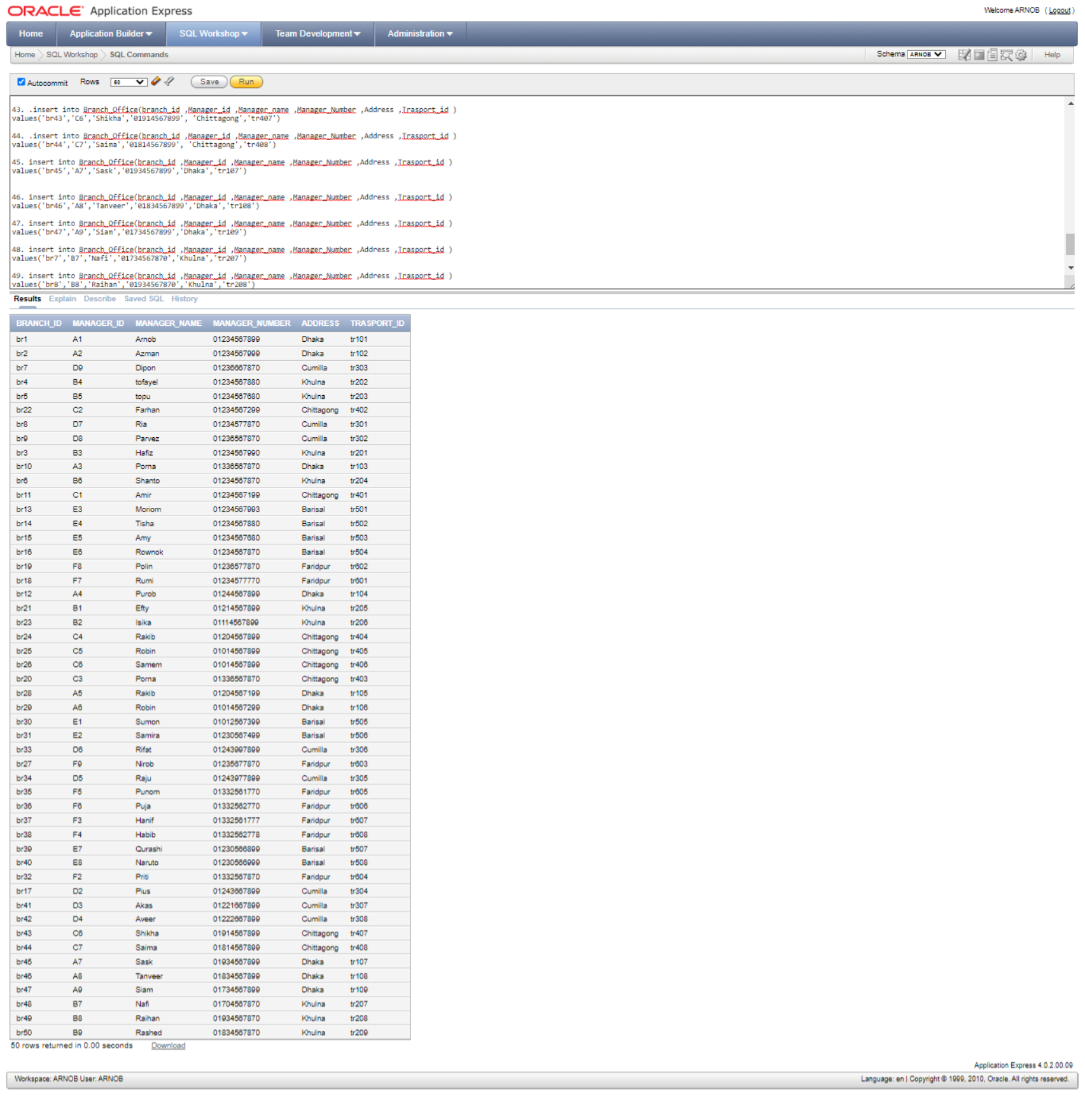
47. insert into Branch\_Office(branch\_id ,Manager\_id ,Manager\_name ,Manager\_Number ,Address,Trasport\_id ) values('br47','A9','Siam','01734567899','Dhaka','tr109')

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')

Output:-



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')

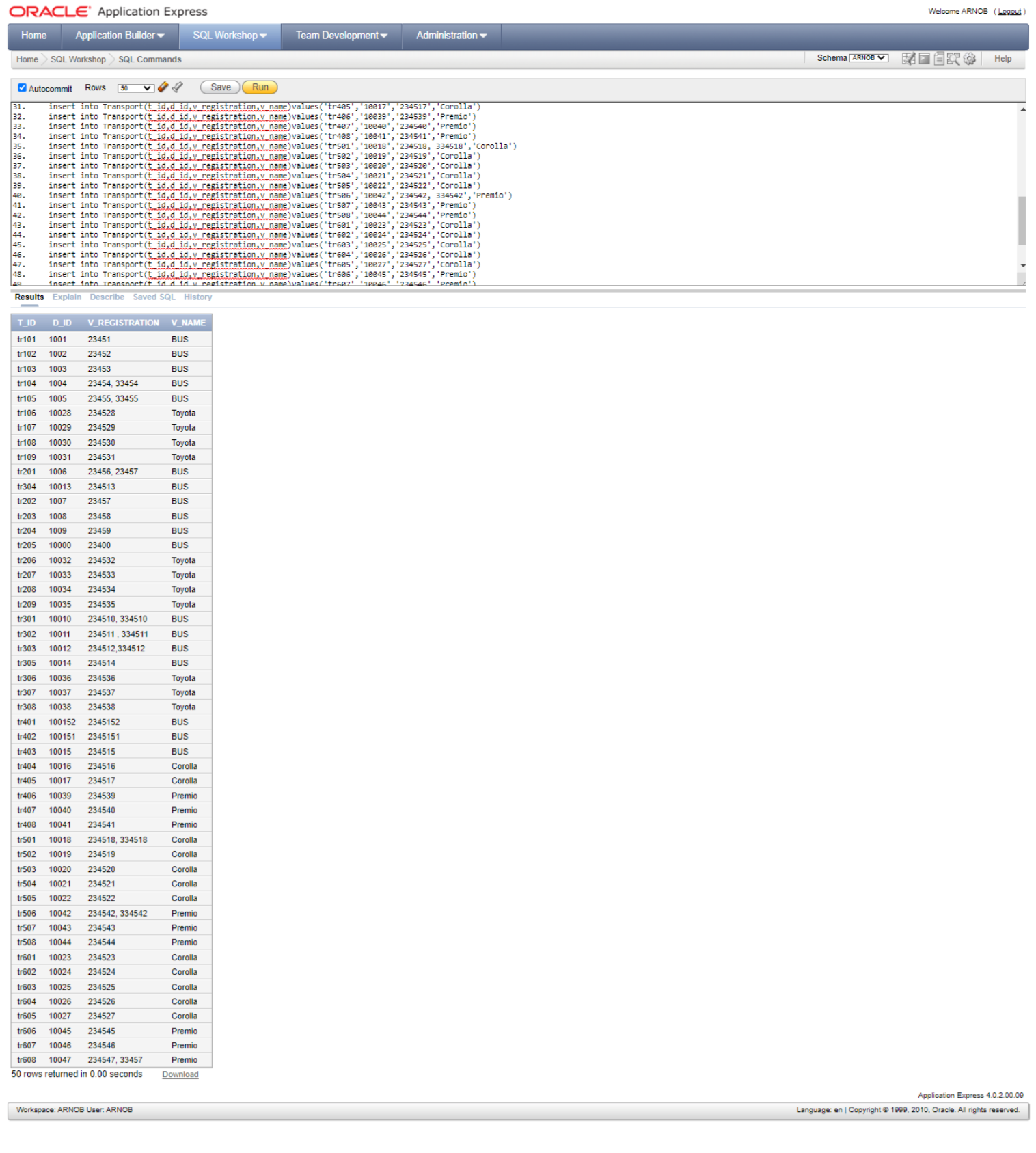
47.insert into Transport(t\_id,d\_id,v\_registration,v\_name)values('tr605','10027','234527','Corolla')

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:-

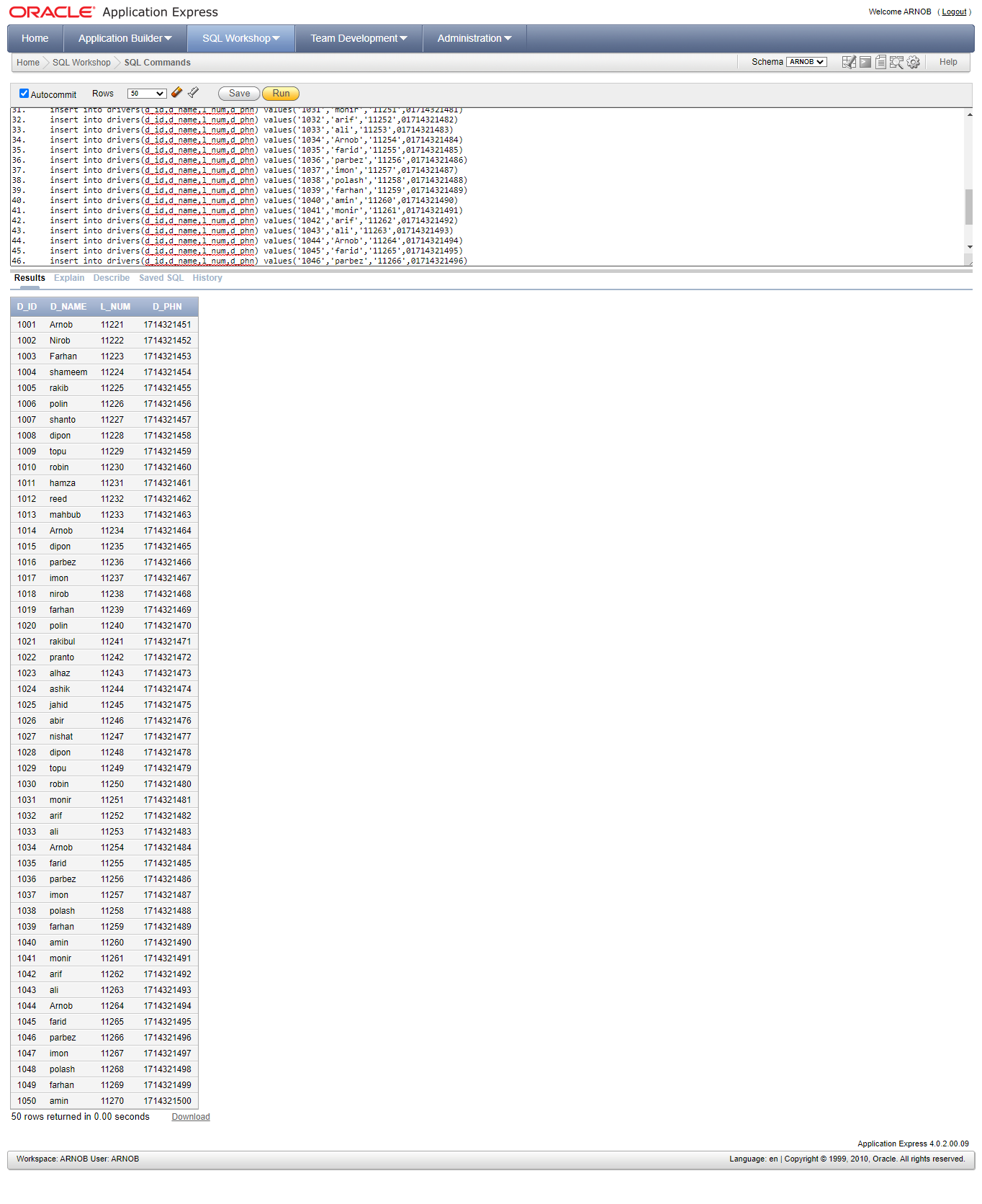


**3.Drivers:-**

**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:-



Query WRITTING

Query;-

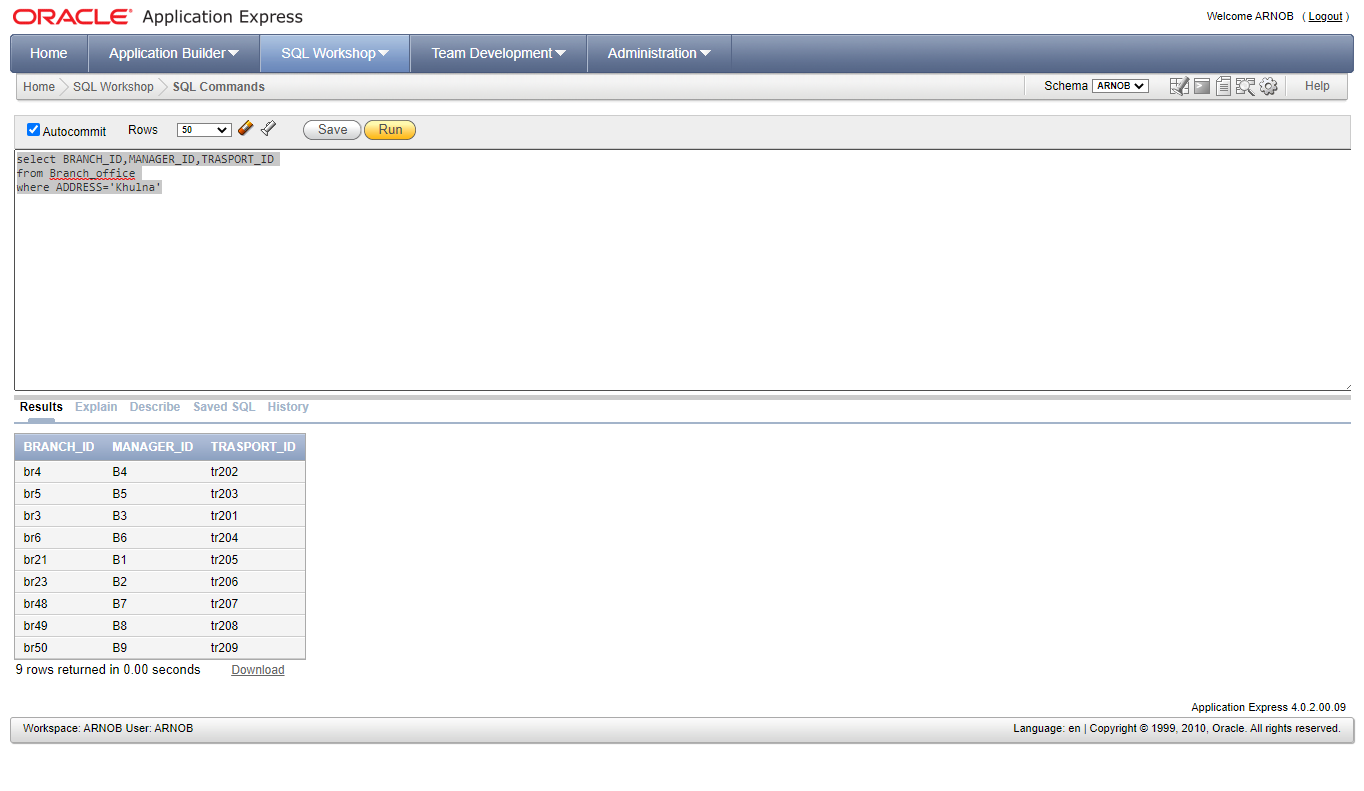
1.

select BRANCH\_ID,MANAGER\_ID,TRASPORT\_ID

from Branch\_office

where ADDRESS='Khulna'

output:-



ORDER BY:-

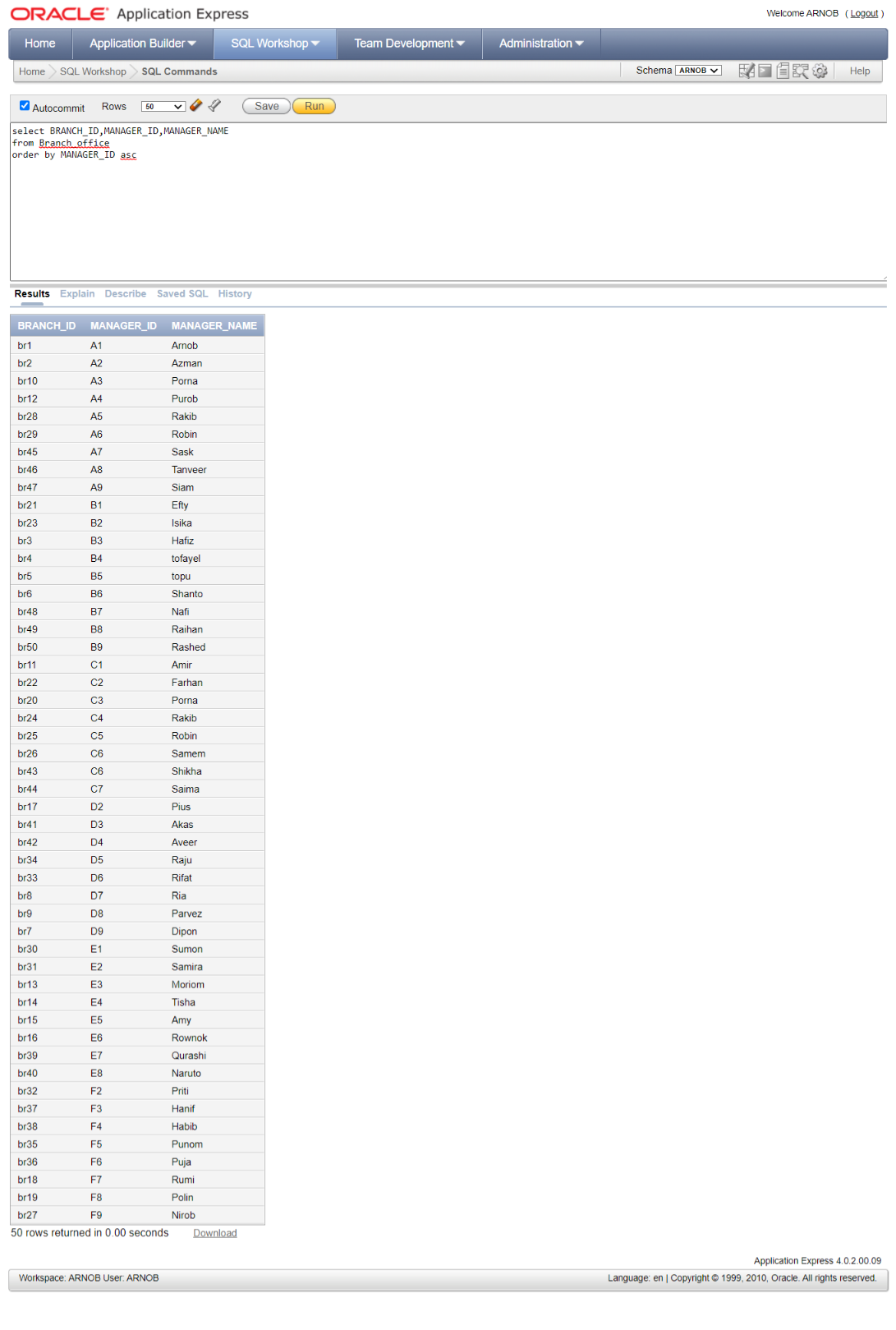
2.

select BRANCH\_ID,MANAGER\_ID,MANAGER\_NAME

from Branch\_office

order by MANAGER\_ID asc

Output;-



GROUP BY:-

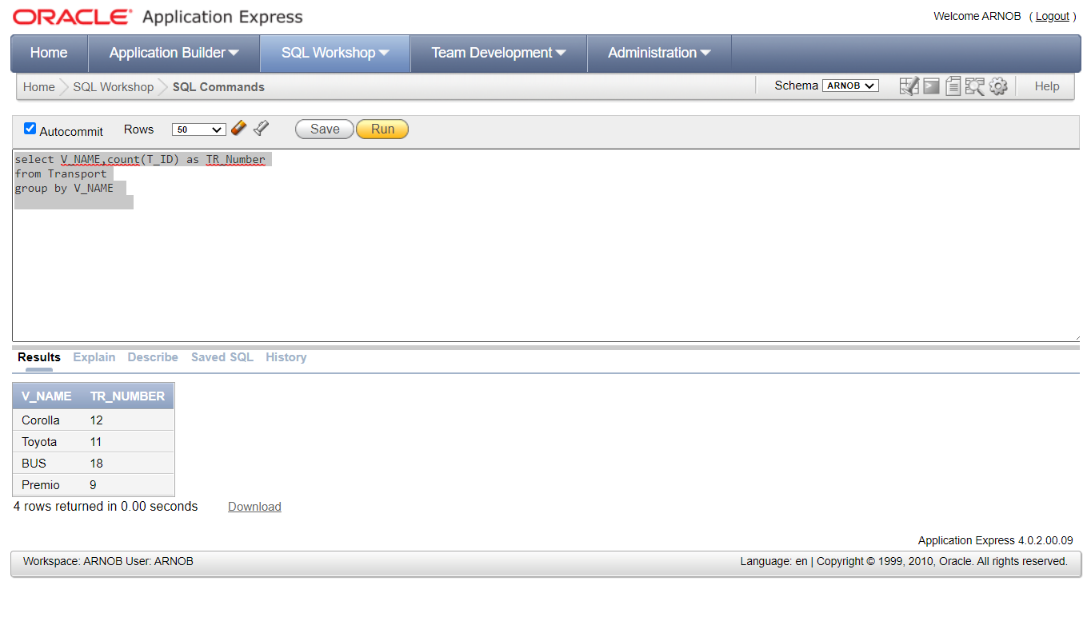
3.

select V\_NAME,count(T\_ID) as TR\_Number

from Transport

group by V\_NAME

Output:-



STRING OPARATION;-

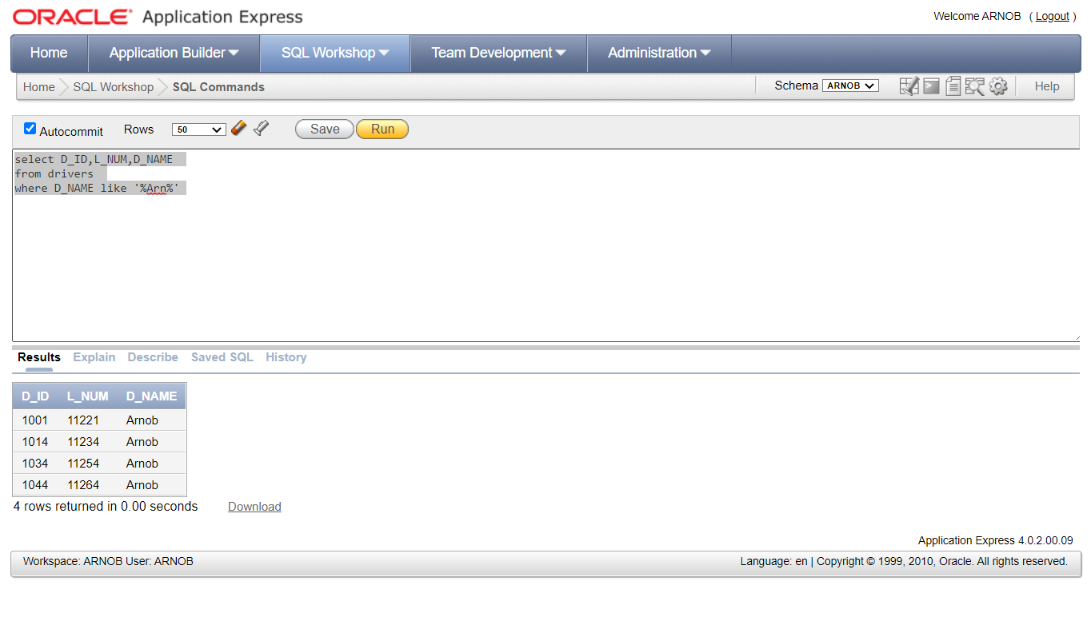
4.

select D\_ID,L\_NUM,D\_NAME

from drivers

where D\_NAME like '%Arn%'

output;-

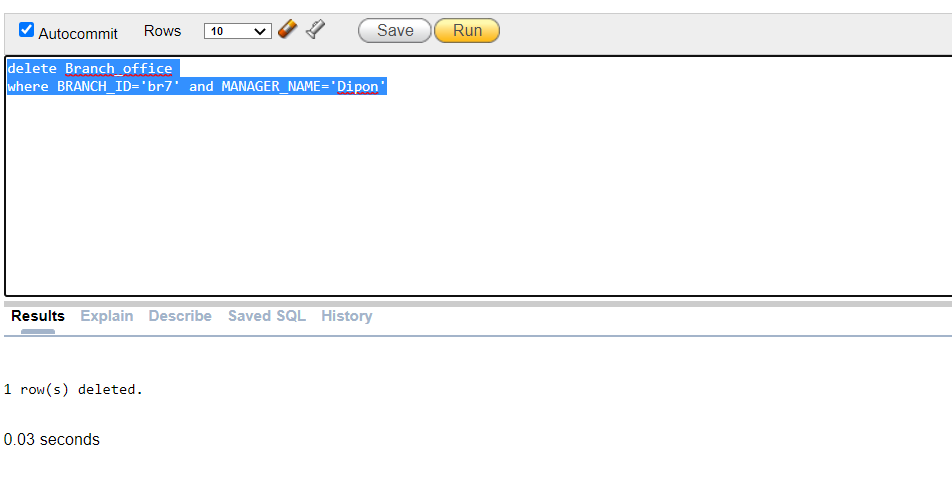


DELETION:-

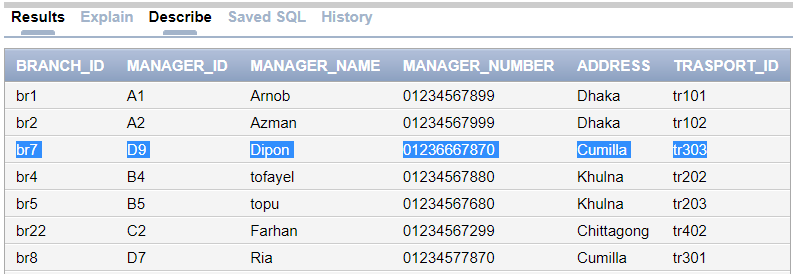
5.

delete Branch\_office

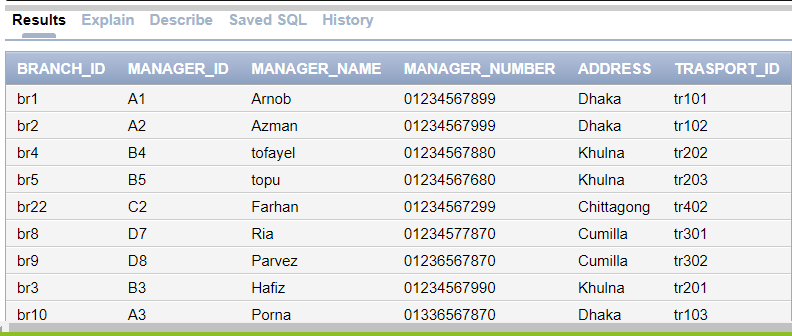
where BRANCH\_ID='br7' and MANAGER\_NAME='Dipon'



BEFOR DELETE;-



AFTER DELETE;-



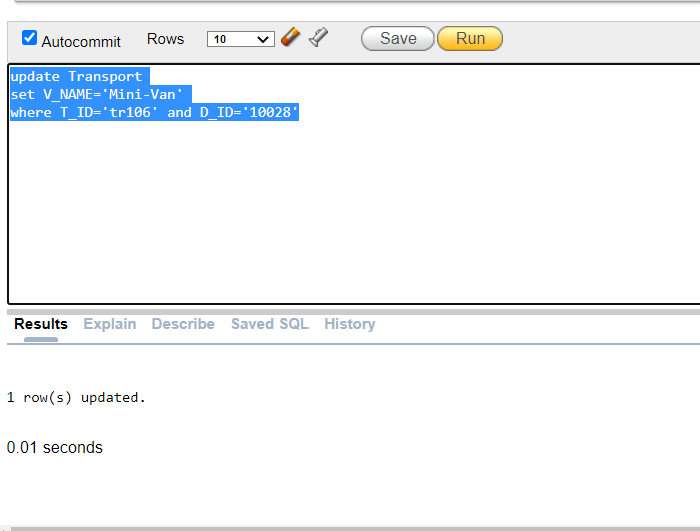
UPDATE:-

6.

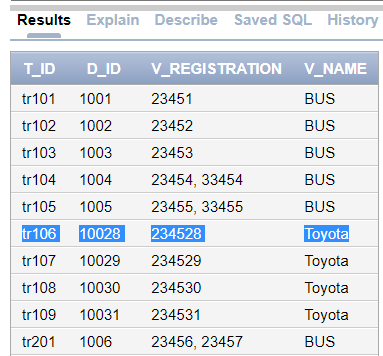
update Transport

set V\_NAME='Mini-Van'

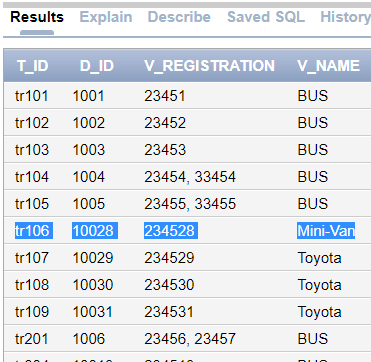
where T\_ID='tr106' and D\_ID='10028'



BEFORE UPDATE;-



AFTER UPDATE:-



NESTED QUERY;-

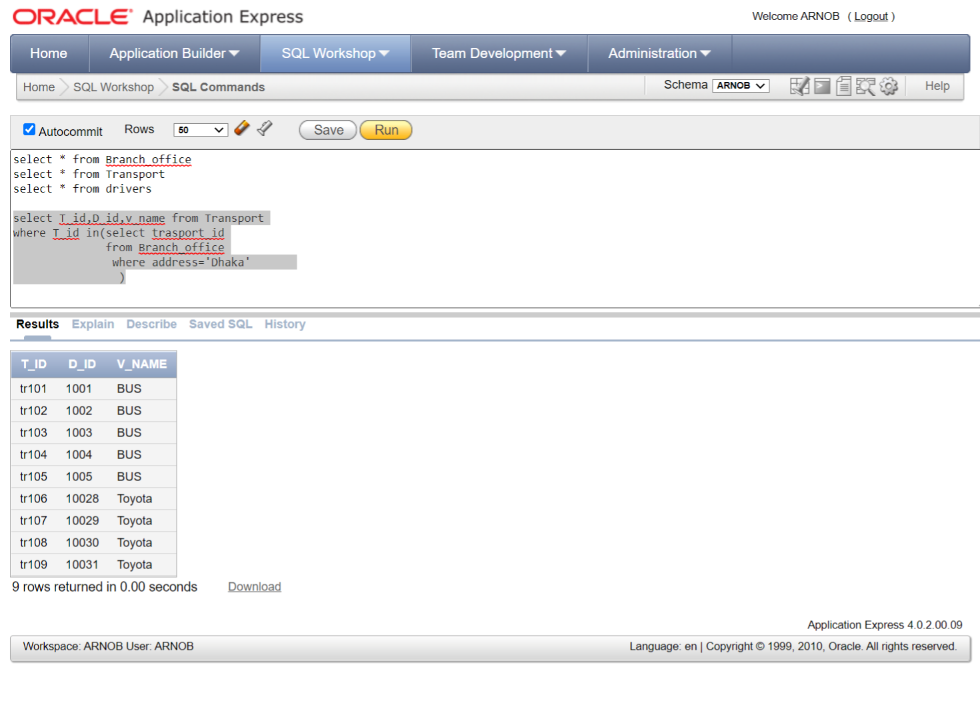
7.

select T\_id, name from Transport

where T\_id in(select trasport\_id

from Branch\_office

where adddress='Dhaka' )



8.

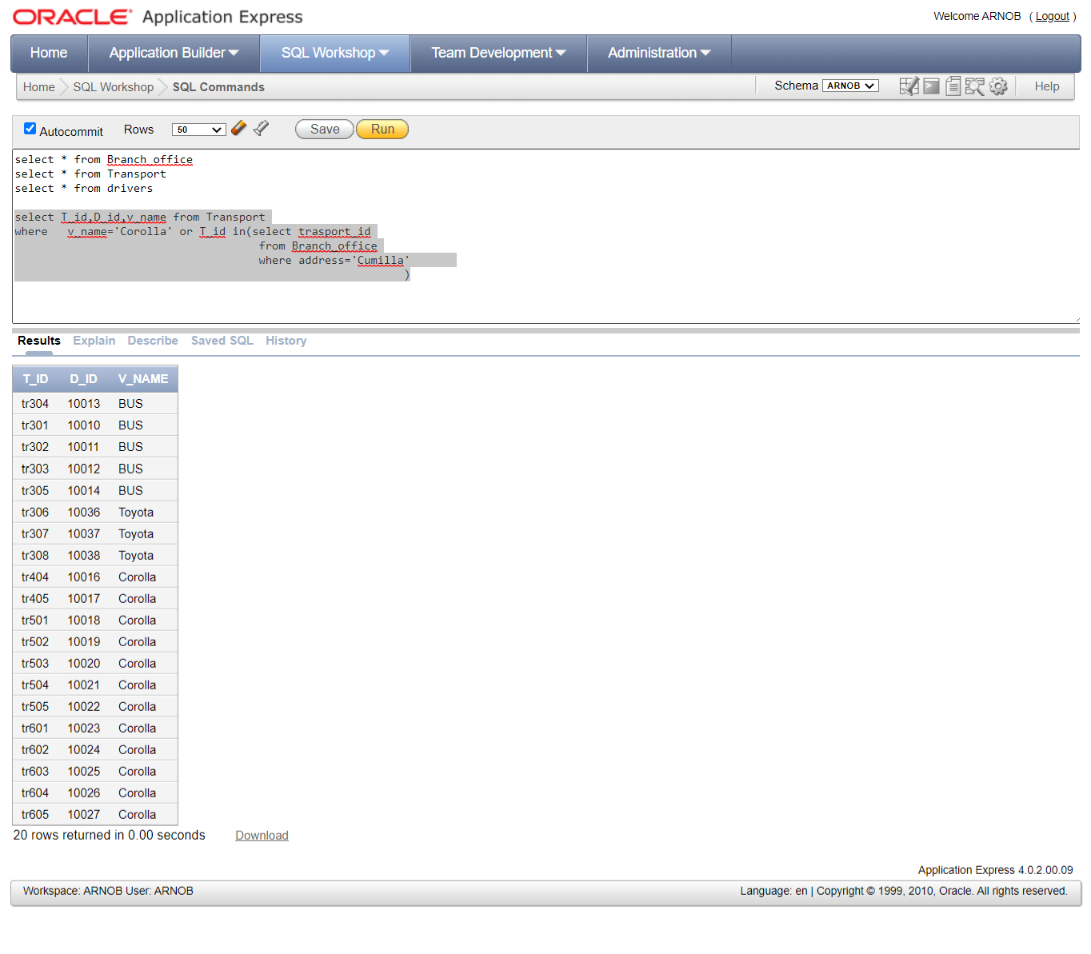
select T\_id,D\_id,v\_name from Transport

where v\_name='Corolla' or

T\_id in(select trasport\_id

from Branch\_office

where address='Cumilla' )



9.

select BRANCH\_ID, MANAGER\_ID,MANAGER\_NAME

from Branch\_office

where ADDRESS='Dhaka' and

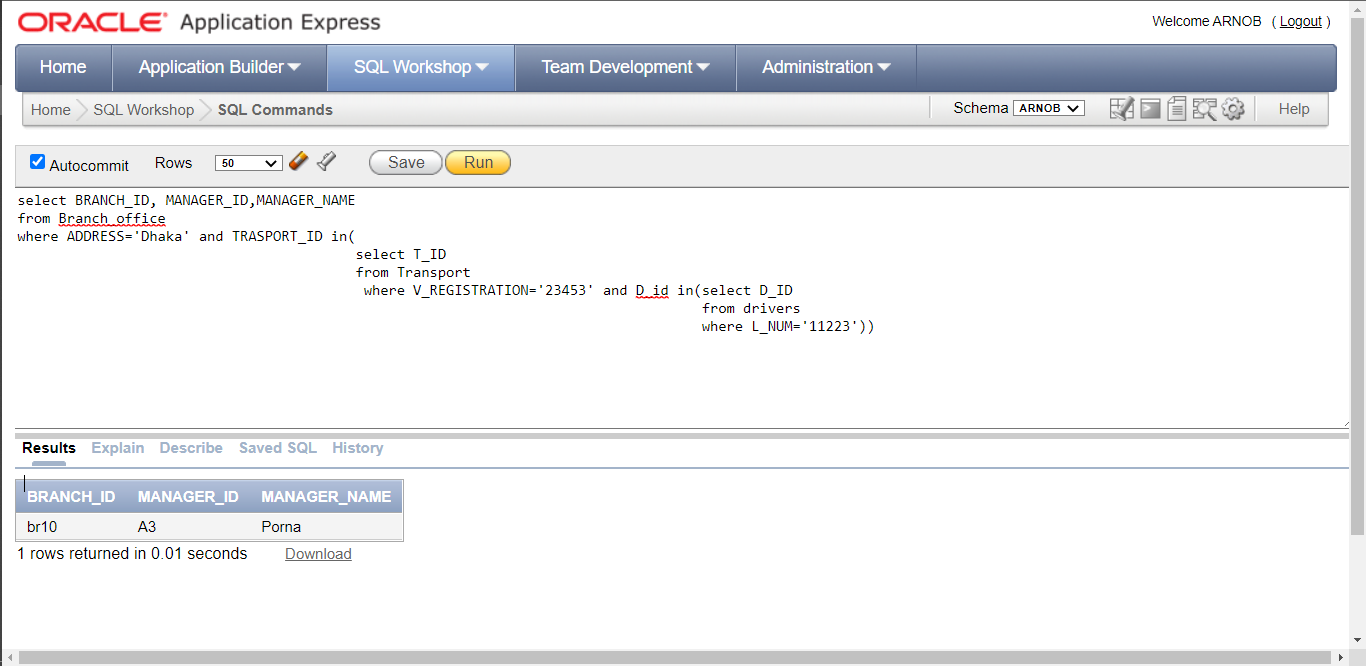
TRASPORT\_ID in(select T\_ID

from Transport where V\_REGISTRATION='23453' and D\_id in(

select D\_ID

from drivers

where L\_NUM='11223'))



JOIN:-

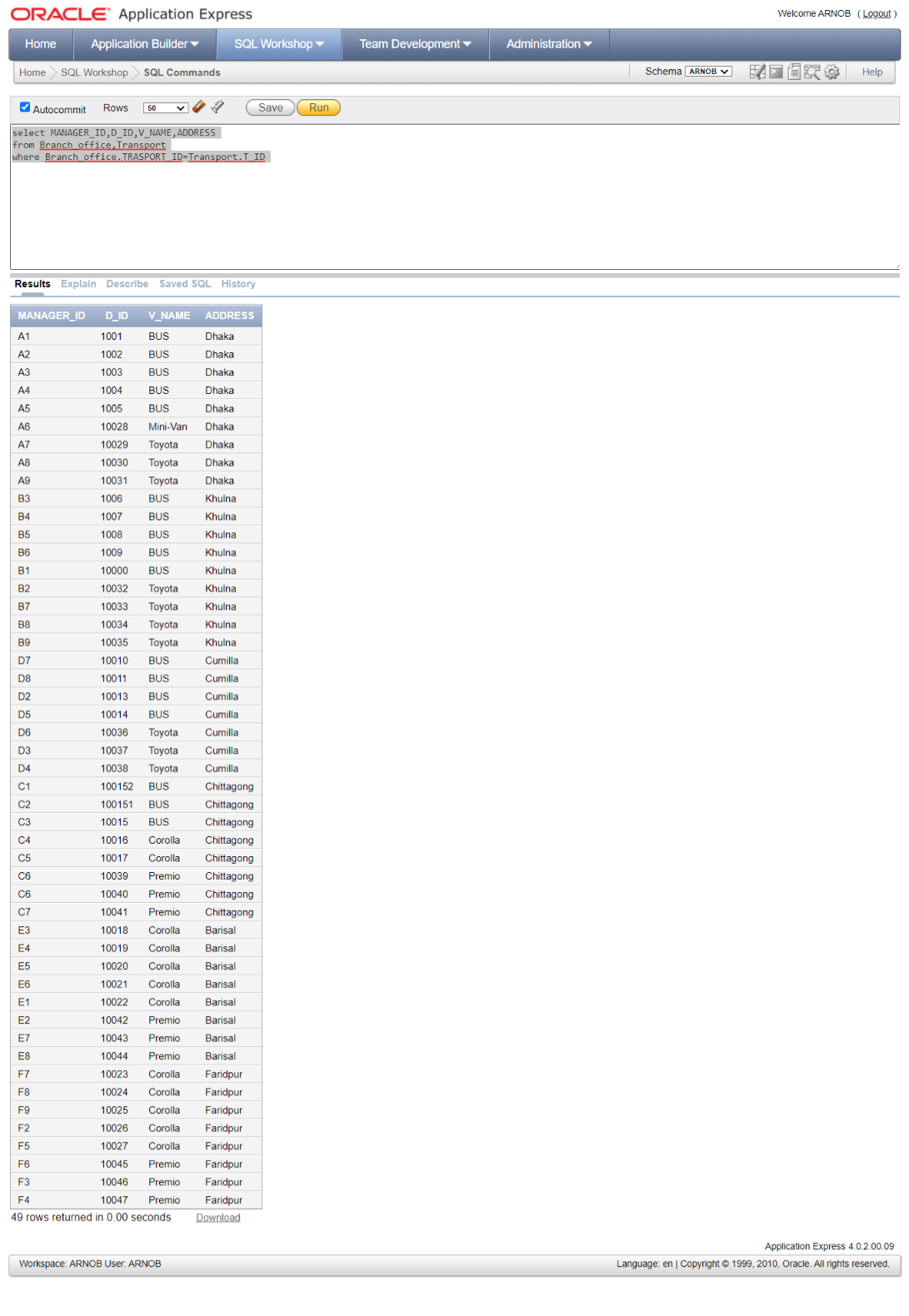
FULL JOIN:-

10.

select MANAGER\_ID,D\_ID,V\_NAME

from Branch\_office,Transport

where Banch\_office.TRASPORT\_ID=Transport.T\_ID



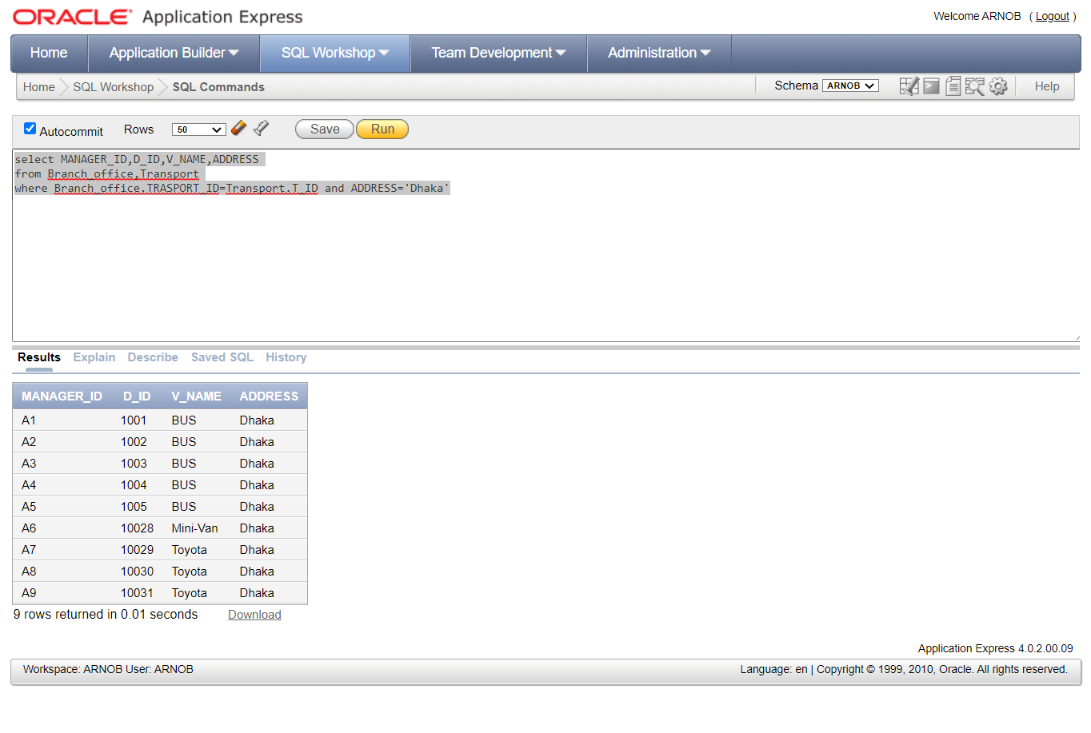
CONDITIONAL JOIN:-

11.

select MANAGER\_ID,D\_ID,V\_NAME,ADDRESS

from Branch\_office,Transport

where Branch\_office.TRASPORT\_ID=Transport.T\_ID and ADDRESS='Dhaka'



VIEW:-

CREATE VIEW:-

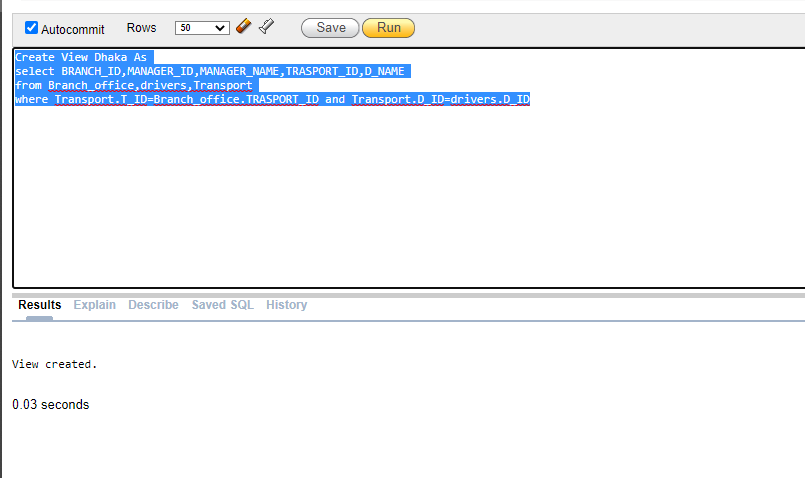
12.

Create View Dhaka As

select BRANCH\_ID,MANAGER\_ID,MANAGER\_NAME,TRASPORT\_ID,D\_NAME

from Branch\_office,drivers,Transport

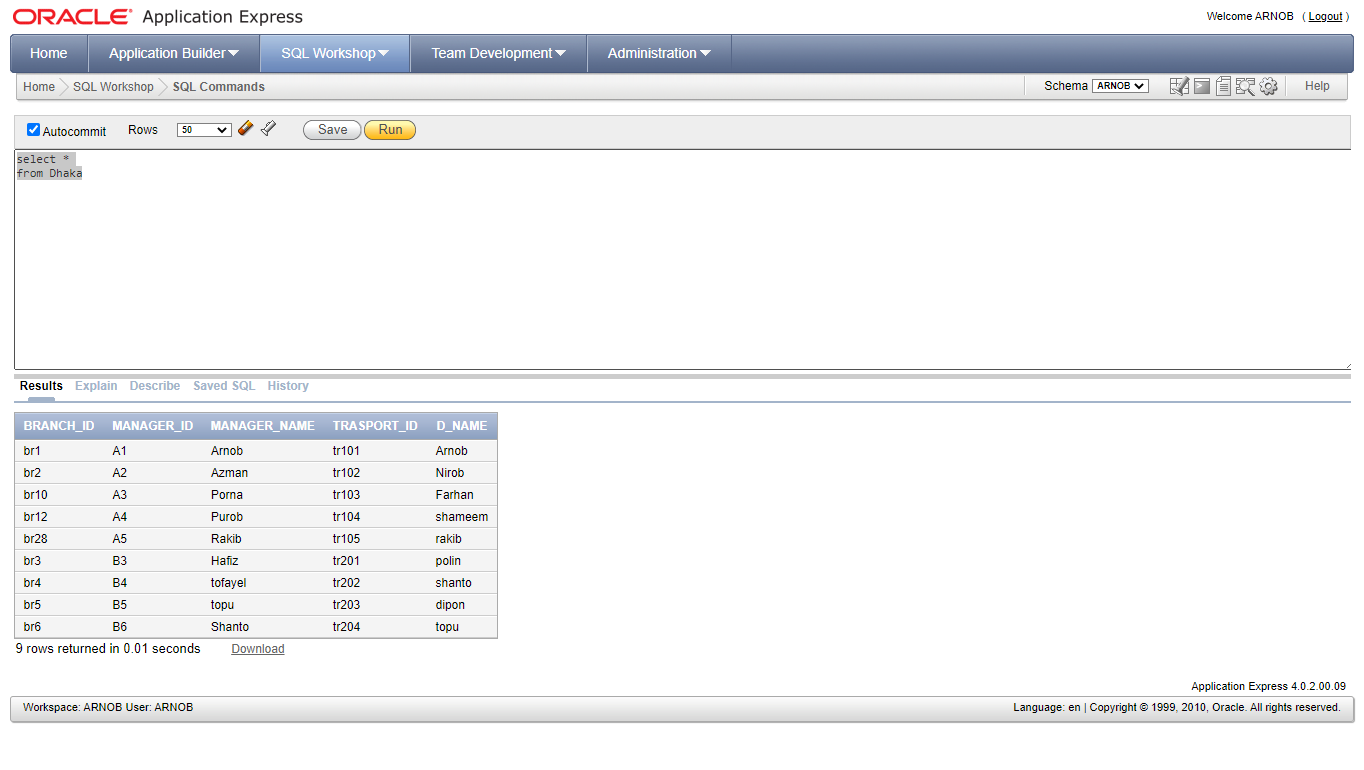
where Transport.T\_ID=Branch\_office.TRASPORT\_ID and Transport.D\_ID=drivers.D\_ID



SHOW VIEW:-

13.

select \* from Dhaka



RElational Algebra

1. Find Manger Name who are work in ‘Dhaka’?

=> π Manager\_name(ℓ Address=’Dhaka’(Branch\_office))

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

=> π Branch\_ID(ℓ Manager\_name=’Arnob’ ^ Address=’Dhaka’ (Branch\_office))

3. Find Those Manager who only Manages ‘Bus’?

=> π Manager\_ID,Manager\_Name( π TRASPORT\_ID((Branch\_office) ⋈( π Tr\_ID (ℓ V\_name=’Bus’ (Transport) ) ) )

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

=> π D\_Id,D\_Name ( ℓ L\_Num=’11227’ v D\_Name=’Shanto’(Drivers))

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

=> π D\_ID, D\_Name ( π D-ID ( ℓ V\_Name=”Bus” (Transfort)) ⋈ (Drivers))

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

=> π Branch\_ID,manager\_Name ( π Transfort\_ID (Branch\_Office)) ⋈ ( π Tr\_id ( π D\_ID ( ℓ V\_Name=”Premio” (Transfort)) )⋈ ( π D-ID ( ℓ D\_name=”Nirob” (Drivers)))

7.Find All the Registration no. For Bus?

=> π V\_Registration( ℓ V\_Name=’Bus’ (Transport) )

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

=> π D\_Name ( ℓ D\_ID > 1000 and D\_ID<1010 (drivers))

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

=> (π Manager\_ID, D\_ID (Branch\_office))/ ( π D\_ID( ℓ V\_Name =”Toyoto”(Drivers))

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

=> π D\_ID, Name (( π D\_ID (Drivers)) ⋈ ( π D\_ID ( ℓ V\_Registration ≠ 23452 ^ 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 | ADDRESS | 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 remove 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 depends on other nonprimary key attributes.
3. All transitive dependencies are remove 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:

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.

|  |  |  |  |
| --- | --- | --- | --- |
| **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***

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.

|  |  |  |  |
| --- | --- | --- | --- |
| **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.