Table Creation:

1. Create table Customer(c_id number(10) primary key,c_name varchar2(20) not null,c_phone number(11), pickup_location varchar2(50) not null, of_id number(10),b_id varchar2(10), a_id varchar2(20));

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **CUSTOMER**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CUSTOMER	C_ID	Number	-	10	0	1	-	-	-
	C_NAME	Varchar2	20	-	-	-	-	-	-
	C_PHONE	Number	-	11	0	-	✓	-	-
	PICKUP_LOCATION	Varchar2	50	-	-	-	-	-	-
	OF_ID	Number	-	10	0	-	✓	-	-
	B_ID	Varchar2	10	-	-	-	✓	-	-
	A_ID	Varchar2	20	-	-	-	✓	-	-

1 - 7

2. Create table address(a_id varchar2(20) primary key, country varchar2(10) default 'BANGLADESH',city varchar2(10) default 'DHAKA');

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **ADDRESS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
ADDRESS	A_ID	Varchar2	20	-	-	1	-	-	-
	COUNTRY	Varchar2	10	-	-	-	✓	'BANGLADESH'	-
	CITY	Varchar2	10	-	-	-	✓	'DHAKA'	-

1 - 3

3. Create table car(reg_number number(10) primary key, car_name varchar2(20) not null, year number(4) not null, color varchar2(10) check(color='SILVER' or color='BLACK' or color='RED' or color='WHITE'),c_id number(10),d_licence varchar2(15),ow_id number(10),i_number number(10));

Results Explain Describe Saved SQL History

Object Type TABLE Object CAR

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
CAR	REG_NUMBER	Number	-	10	0	1	-	-	-
	CAR_NAME	Varchar2	20	-	-	-	-	-	-
	YEAR	Number	-	4	0	-	-	-	-
	COLOR	Varchar2	10	-	-	-	✓	-	-
	C_ID	Number	-	10	0	-	✓	-	-
	D_LICENCE	Varchar2	15	-	-	-	✓	-	-
	OW_ID	Number	-	10	0	-	✓	-	-
	I_NUMBER	Number	-	10	0	-	✓	-	-

1 - 8

4. Create table driver(d_licence varchar2(15) primary key, d_name varchar2(20) not null,d_phone number(11) Unique, d_location varchar2(20),d_salary number(6),c_id number(10),ow_id number(10));

Results Explain Describe Saved SQL History

Object Type TABLE Object DRIVER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DRIVER	D_LICENCE	Varchar2	15	-	-	1	-	-	-
	D_NAME	Varchar2	20	-	-	-	-	-	-
	D_PHONE	Number	-	11	0	-	✓	-	-
	D_LOCATION	Varchar2	20	-	-	-	✓	-	-
	D_SALARY	Number	-	6	0	-	✓	-	-
	C_ID	Number	-	10	0	-	✓	-	-
	OW_ID	Number	-	10	0	-	✓	-	-

1 - 7

5. Create table owner(ow_id number(10) primary key,ow_name varchar2(20) not null, ow_phone number(11) unique, ow_address varchar2(50) default 'NULL', of_id number(10));

Results Explain Describe Saved SQL History

Object Type TABLE Object OWNER

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
OWNER	OW_ID	Number	-	10	0	1	-	-	-
	OW_NAME	Varchar2	20	-	-	-	-	-	-
	OW_PHONE	Number	-	11	0	-	✓	-	-
	OW_ADDRESS	Varchar2	50	-	-	-	✓	'NULL'	-
	OF_ID	Number	-	10	0	-	✓	-	-

1 - 5

6. Create table office(of_id number(10) primary key, of_name varchar2(20) not null, of_phone number(11) unique, of_address varchar2(50) default 'NULL');

Results Explain Describe Saved SQL History

Object Type TABLE Object OFFICE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
OFFICE	OF_ID	Number	-	10	0	1	-	-	-
	OF_NAME	Varchar2	20	-	-	-	-	-	-
	OF_PHONE	Number	-	11	0	-	✓	-	-
	OF_ADDRESS	Varchar2	50	-	-	-	✓	'NULL'	-

1 - 4

7. Create table insurance(i_number number(10) primary key,i_typeid number(4));

Results Explain Describe Saved SQL History

Object Type TABLE Object INSURANCE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
INSURANCE	I_NUMBER	Number	-	10	0	1	-	-	-
	I_TYPEID	Number	-	4	0	-	✓	-	-

1 - 2

8. Create table insurance_type(i_typeid number(4) primary key,full_coverage number(10) not null, liability number(10) not null);

Results Explain Describe Saved SQL History

Object Type TABLE Object INSURANCE_TYPE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
INSURANCE_TYPE	I_TYPEID	Number	-	4	0	1	-	-	-
	FULL_COVERAGE	Number	-	10	0	-	-	-	-
	LIABILITY	Number	-	10	0	-	-	-	-

1 - 3

9. Create table employee(e_id varchar2(10) primary key,e_name varchar2(20) not null,e_gender varchar2(10) check(e_gender='MALE' or e_gender='FEMALE'),e_hiredate date,e_salary number(10) default '0',of_id number(10));

Results Explain Describe Saved SQL History

Object Type TABLE Object EMPLOYEE

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
EMPLOYEE	E_ID	Varchar2	10	-	-	1	-	-	-
	E_NAME	Varchar2	20	-	-	-	-	-	-
	E_GENDER	Varchar2	10	-	-	-	✓	-	-
	E_HIREDATE	Date	7	-	-	-	✓	-	-
	E_SALARY	Number	-	10	0	-	✓	'0'	-
	OF_ID	Number	-	10	0	-	✓	-	-

1 - 6

10. Create table destination(street_id varchar2(20) primary key,a_id varchar2(20),c_id number(10));

Results Explain Describe Saved SQL History

Object Type TABLE Object DESTINATION

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DESTINATION	STREET_ID	Varchar2	20	-	-	1	-	-	-
	A_ID	Varchar2	20	-	-	-	✓	-	-
	C_ID	Number	-	10	0	-	✓	-	-

1 - 3

11. Create table bill(b_id varchar2(10) primary key, b_discount varchar2(10),b_cash number(10), b_check number(10), b_credit number(10));

Results Explain Describe Saved SQL History

Object Type TABLE Object BILL

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
BILL	B_ID	Varchar2	10	-	-	1	-	-	-
	B_DISCOUNT	Varchar2	10	-	-	-	✓	-	-
	B_CASH	Number	-	10	0	-	✓	-	-
	B_CHECK	Number	-	10	0	-	✓	-	-
	B_CREDIT	Number	-	10	0	-	✓	-	-

1 - 5

Constraints-:

1. Alter table customer add constraint fk1 foreign key(a_id) references address(a_id);

2. Alter table customer add constraint fk2 foreign key(of_id) references office(of_id);

3. Alter table customer add constraint fk3 foreign key(b_id) references bill(b_id);

4. Alter table car add constraint fk4 foreign key(c_id) references customer(c_id);

5. Alter table car add constraint fk5 foreign key(d_licence) references driver(d_licence);

6. Alter table car add constraint fk6 foreign key(ow_id) references owner(ow_id);

7. Alter table car add constraint fk7 foreign key(i_number) references insurance(i_number);

8. Alter table driver add constraint fk8 foreign key(c_id) references customer(c_id);

9. Alter table driver add constraint fk9 foreign key(ow_id) references owner(ow_id);

10. Alter table owner add constraint fk10 foreign key(of_id) references office(of_id);

11. Alter table insurance add constraint fk11 foreign key(i_typeid) references insurance_type(i_typeid);

12. Alter table employee add constraint fk12 foreign key(of_id) references office(of_id);

13. Alter table destination add constraint fk13 foreign key(a_id) references address(a_id);

14. Alter table destination add constraint fk14 foreign key(c_id) references customer(c_id);