TABLE CREATION

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1)CREATE A TABLE FOR THE AADHARCARD

SQL COMMAND:

SQL> CREATE TABLE ADHAAR(ADHAARID INTEGER CONSTRAINT AADHAR_ID PRIMARY KEY,ENROLLNO INTEGER);

Table created.

OUTPUT:

SQL> DESC ADHAAR

Name	Null?	Type
ADHAARID	NOT NULL	NUMBER(38)
ENROLLNO		NUMBER(38)

2)CREATE A TABLE FOR THE LICENSE

SQL COMMAND:

SQL> CREATE TABLE LICENSE(LICENSENO INTEGER CONSTRAINT LICENSE_NO PRIMARY KEY,VALIDITY INTEGER);

Table created.

OUTPUT:

SQL> DESC LICENSE

Name   Null?   Type

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 LICENSENO   NOT NULL NUMBER(38)

 VALIDITY   NUMBER(38)

3)CREATE A TABLE FOR THE TIMETABLE

SQL COMMAND:

SQL> CREATE TABLE TIMETABLE(TID INTEGER CONSTRAINT T_ID PRIMARY KEY,DAY
VARCHAR(20),CLASS VARCHAR(30));

Table created.

OUTPUT:

SQL> DESC TIMETABLE

Name   Null?   Type

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 TID   NOT NULL NUMBER(38)

 DAY   VARCHAR2(20)

 CLASS   VARCHAR2(30)

4)CREATE A TABLE USERI WITH ITS ATTRIBUTES, PRIMARY KEY AND THE FOREIGN KEY

SQL COMMAND:

SQL> CREATE TABLE USER1(USERID INTEGER CONSTRAINT USER_ID PRIMARY KEY,NAME
VARCHAR(20),PHONENO INTEGER,EMAIL VARCHAR(20),ADHAARID INTEGER CONSTRAINT

USER1_ADHAARID REFERENCES ADHAAR(ADHAARID),LICENCENO INTEGER CONSTRAINT USER1_LICENSENO REFERENCES LICENSE(LICENSENO),TID INTEGER CONSTRAINT USER1_TID REFERENCES TIMETABLE(TID));

Table created.

OUTPUT:

SQL> DESC USER1

Name	Null?	Type
USERID	NOT NULL	NUMBER(38)
NAME		VARCHAR2(20)
PHONENO		NUMBER(38)
EMAIL		VARCHAR2(20)
ADHAARID		NUMBER(38)
LICENCENO		NUMBER(38)
TID		NUMBER(38)

5)CREATE THE TABLE FOR THE DEBITCARD

SQL COMMAND:

SQL> CREATE TABLE DEBITCARD(DEBITNO INTEGER CONSTRAINT DEBIT_NO PRIMARY KEY,BNAME VARCHAR(50),CVV INTEGER,USERID INTEGER CONSTRAINT DEBITCARD_USERID REFERENCES USER1(USERID));

Table created.

OUTPUT:

SQL> DESC DEBITCARD

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Name                                Null?    Type

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DEBITNO                  NOT NULL NUMBER(38)

BNAME                             VARCHAR2(50)

CVV                          NUMBER(38)

USERID                        NUMBER(38)
```

6)CREATE THE TABLE FOR THE CREDITCARD WITH CID AS PRIMARY KEY AND TYPE AS A NOT NULL CONSTRAINT.

SQL COMMAND:

SQL>

SQL> CREATE TABLE CREDITCARD(CID INTEGER CONSTRAINT CREDIT_ID PRIMARY KEY,CVV INTEGER,USERID INTEGER CONSTRAINT CREDITCARD_USERID REFERENCES USER1(USERID),TYPE INTEGER CONSTRAINT TYPE NOT NULL);

Table created.

SQL> DESC CREDITCARD
```
Name                                Null?    Type

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CID                      NOT NULL NUMBER(38)

CVV                             NUMBER(38)

USERID                         NUMBER(38)

TYPE                     NOT NULL NUMBER(38)
```

7)CREATE THE TABLE FOR THE GIFTCARD WITH GVALIDITY IS A UNIQUE AND SET THE CHECK CONSTRAINT FOR THE GENDER.

SQL COMMAND:

SQL>

SQL> CREATE TABLE GIFTCARD(GID INTEGER CONSTRAINT G_ID PRIMARY KEY,GVALIDYTY INTEGER CONSTRAINT GVALIDYTY UNIQUE,USERID INTEGER CONSTRAINT GIFTCARD_USERID REFERENCES USER1(USERID),GENDER CHAR(1) CONSTRAINT GENDER CHECK(GENDER IN('M','F')));

Table created.

SQL> DESC GIFTCARD

Name	Null?	Type
GID	NOT NULL	NUMBER(38)
GVALIDYTY		NUMBER(38)
USERID		NUMBER(38)
GENDER		CHAR(1)

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2.ALTERING THE TABLE

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1.ALTER THE TABLE USER1 BY ADDING A NEW COLUMN ADDRESS.

SQL COMMAND:

SQL> ALTER TABLE USER1 ADD ADDRESS VARCHAR(30);

Table altered.

OUTPUT:

SQL> DESC USER1

Name   Null?   Type

-- -------- --------------------------

USERID   NOT NULL NUMBER(38)

NAME   VARCHAR2(20)

PHONENO   NUMBER(38)

EMAIL   VARCHAR2(20)

ADHAARID   NUMBER(38)

LICENCENO   NUMBER(38)

TID   NUMBER(38)

ADDRESS   VARCHAR2(30)

2.ALTER THE TABLE GIFTCARD BY ADDING A NEW COLUMN ADDRESS.

SQL COMMAND:

SQL> ALTER TABLE GIFTCARD ADD AMOUNT VARCHAR(30);

 Table altered.

OUTPUT:

    SQL> DESC GIFTCARD

Name   Null?   Type

-- -------- --------------------------

GID   NOT NULL NUMBER(38)

GVALIDYTY   NUMBER(38)

USERID   NUMBER(38)

AMOUNT   NUMBER(38)

3.ALTER THE TABLE LICENSE BY ADDING A NEW COLUMN VTYPE.

SQL COMMAND:

SQL> ALTER TABLE LICENSE ADD VTYPE VARCHAR(30);

OUTPUT:

Table altered.

SQL> DESC LICENSE

 Name   Null?   Type

 -- -------- ---------------------------

 LICENSENO   NOT NULL NUMBER(38)

 VALIDITY   NUMBER(38)

 VTYPE   VARCHAR2(30)

3.RENAMING

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1.RENAME THE EMAIL IN USER1 TABLE TO MAIL.

SQL COMMAND:

SQL> ALTER TABLE USER1 RENAME COLUMN EMAIL TO MAIL;

Table altered.

OUTPUT:

SQL> DESC USER1

Name	Null?	Type
USERID	NOT NULL	NUMBER(38)
NAME		VARCHAR2(20)
PHONENO		NUMBER(38)
MAIL		VARCHAR2(20)
ADHAARID		NUMBER(38)
LICENCENO		NUMBER(38)
TID		NUMBER(38)
ADDRESS		VARCHAR2(30)

2.RENAME THE GVALIDITY IN GIFTCARD TABLE TO GVALID.

SQL COMMAND:

SQL> ALTER TABLE GIFTCARD RENAME COLUMN GVALIDYTY TO GVALID;

Table altered.

OUTPUT:

SQL> DESC GIFTCARD

Name	Null?	Type
GID	NOT NULL	NUMBER(38)
GVALID		NUMBER(38)

USERID	NUMBER(38)
AMOUNT	NUMBER(38)

3.RENAME THE TYPE IN CREDITCARD TABLE TO TYPES.

SQL COMMAND:

SQL> ALTER TABLE CREDITCARD RENAME COLUMN TYPE TO TYPES;

Table altered.

OUTPUT:

SQL> DESC CREDITCARD

Name	Null?	Type
CID	NOT NULL	NUMBER(38)
CVV		NUMBER(38)
USERID		NUMBER(38)
TYPES		VARCHAR2(20)

IV) MODIFYING THE STRUCTURE OF THE TABLE

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1.MODIFY THE ADDRESS FIELD OF user1 TABLE BY INCREASING ITS LIMIT TO 40.

SQL COMMAND:

SQL> ALTER TABLE USER1 MODIFY ADDRESS VARCHAR(40);

OUTPUT:

Table altered.

SQL> DESC USER1

Name	Null?	Type
USERID	NOT NULL	NUMBER(38)
NAME		VARCHAR2(20)
PHONENO		NUMBER(38)
MAIL		VARCHAR2(20)
ADHAARID		NUMBER(38)
LICENCENO		NUMBER(38)
TID		NUMBER(38)
ADDRESS		VARCHAR2(40)

2.MODIFY THE CLASS FIELD OF TIMETABLE TABLE BY INCREASING ITS LIMIT TO 40.

SQL COMMAND:

SQL> ALTER TABLE TIMETABLE MODIFY CLASS VARCHAR(40);

OUTPUT:

Table altered.

SQL> DESC TIMETABLE

Name	Null?	Type
TID	NOT NULL	NUMBER(38)

DAY	VARCHAR2(20)
CLASS	VARCHAR2(40)

3.MODIFY THE TYPES FIELD OF CREDITCARD TABLE BY INCREASING ITS LIMIT TO 30.

SQL COMMAND:

SQL> ALTER TABLE CREDITCARD MODIFY TYPES VARCHAR(30);

OUTPUT:

Table altered.

SQL> DESC CREDITCARD

Name   Null?   Type
-------------------------------- -------- --------------------------
CID   NOT NULL NUMBER(38)
CVV   NUMBER(38)
USERID   NUMBER(38)
TYPES   VARCHAR2(30)

IV) REMOVE PRIMARY KEY CONSTRAINT

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1.REMOVE THE PRIMARY KEY CONSTRAINT FROM GIFTCARD.

SQL COMMAND:

SQL>

ALTER TABLE GIFTCARD DROP CONSTRAINT G_ID;

Table altered.

SQL> DESC GIFTCARD

Name   Null?   Type

-------------------------------------- -------- --------------------------

GID   NUMBER(38)

GVALIDYTY   NUMBER(38)

USERID   NUMBER(38)

AMOUNT   NUMBER(38)

2.ADDING PRIMARY KEY CONSTRAINT IN GIFTCARD

SQL COMMAND:

SQL>

ALTER TABLE GIFTCARD ADD CONSTRAINT G_ID PRIMARY KEY(GID);

Table altered.

SQL> DESC GIFTCARD

Name   Null?   Type

-------------------------------------- -------- --------------------------

GID   NOT NULL NUMBER(38)

GVALIDYTY   NUMBER(38)

USERID   NUMBER(38)

AMOUNT   NUMBER(38)

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VI) DROP COLUMN

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1.DROP THE COLUMN AMOUNT FROM GIFTCARD.

SQL COMMAND:

SQL> ALTER TABLE GIFTCARD DROP (AMOUNT);

Table altered.

OUTPUT:

SQL> DESC GIFTCARD

```
 Name                            Null?   Type
 --------------------------------------- -------- --------------------------
 GID                     NOT NULL NUMBER(38)
 GVALIDYTY                        NUMBER(38)
 USERID                          NUMBER(38)
```

V)TRUNCATE

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1.TRUNCATE THE GIFTCARD TABLE.

SQL COMMAND:

TRUNCATE TABLE GIFTCARD;

Table truncated.

SQL> DESC GIFTCARD

 Name   Null?   Type

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 GID   NOT NULL NUMBER(38)

 GVALIDYTY   NUMBER(38)

 USERID   NUMBER(38)

 AMOUNT   NUMBER(38)

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                        VI)DROP

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1.DROP THE USER2 TABLE.

SQL COMMAND:

SQL> DROP TABLE USER2;

Table dropped.

OUTPUT:

SQL> DESC USER2

ERROR:

ORA-04043: object USER2 does not exist

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V)TABLE DISPLAY

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SQL> DESC USER1

Name   Null?   Type

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 USERID   NOT NULL NUMBER(38)

 NAME   VARCHAR2(20)

 PHONENO   NUMBER(38)

 MAIL   VARCHAR2(20)

 ADHAARID   NUMBER(38)

 LICENCENO   NUMBER(38)

 TID   NUMBER(38)

 ADDRESS   VARCHAR2(40)

SQL> DESC TIMETABLE

Name   Null?   Type

-------------------------------------- -------- -------------------------

 TID   NOT NULL NUMBER(38)

 DAY   VARCHAR2(20)

 PERIOD   VARCHAR2(40)

 HOUR   NUMBER(38)

SQL> DESC CREDITCARD

Name   Null?   Type

-------------------------------------- -------- -------------------------

CID	NOT NULL NUMBER(38)
CVV	NUMBER(38)
USERID	NUMBER(38)
TYPE	VARCHAR2(30)

SQL> DESC DEBITCARD

Name	Null?	Type
DEBITNO	NOT NULL	NUMBER(38)
BNAME		VARCHAR2(50)
CVV		NUMBER(38)
USERID		NUMBER(38)
DVALID		NUMBER(38)

SQL> DESC LICENSE

Name	Null?	Type
LICENSENO	NOT NULL	NUMBER(38)
VALIDITY		NUMBER(38)
VEHICLETYPE		VARCHAR2(50)

SQL> DESC ADHAAR

Name	Null?	Type
ADHAARID	NOT NULL	NUMBER(38)
ENROLLNO		NUMBER(38)

SQL> DESC GIFTCARD

Name	Null?	Type
GID	NOT NULL	NUMBER(38)

GVALIDYTY	NUMBER(38)
USERID	NUMBER(38)
AMOUNT	NUMBER(38)

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[21bcs048@mepcolinux DBMS]$