EXPERIMENT NO:1 DATE:22.08.2024

DDL COMMANDS

AIM:

To use DDL commands i.e create ,desc,truncate,drop,alter in table

SYNTAX:

create table table\_name(column\_name <datatype> key,column\_name <datatype>);

SQL> create table customer (

customer\_id varchar(10) primary key,

first\_name varchar(50),

middle\_name varchar(50),

last\_name varchar(50),

city varchar(50),

mobile\_no varchar(15),

occupation varchar(50),

dob date

);

Table created

>desc customer

NAME NULL? TYPE

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

CUSTOMER\_ID NOT NULL VARCHAR(10)

FIRST\_NAME VARCHAR(50)

MIDDLE\_NAME VARCHAR(50)

LAST\_NAME VARCHAR(50)

CITY VARCHAR(50)

MOBILE\_NO VARCHAR(15)

OCCUPATION VARCHAR(50)

DOB DATE

>create table account (

acc\_no number(10) primary key,

acc\_type varchar2(20),

date\_open date,

date\_clos date,

date\_closed date,

acc\_status varchar2(20),

balance number(10)

);

>desc account

Name Null? Type

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

ACC\_NO NOT NULL NUMBER(10)

ACC\_TYPE VARCHAR2(20)

DATE\_OPEN DATE

DATE\_CLOS DATE

DATE\_CLOSED DATE

ACC\_STATUS VARCHAR2(20)

BALANCE NUMBER(10)

>create table loan (

loan\_no number(10) primary key,

loan\_type varchar2(20),

loan\_amt number(10),

interest\_rate number(5,2),

term number(2),

start\_date date,

end\_date date,

status varchar2(20)

);

>desc loan

Name Null? Type

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

LOAN\_NO NOT NULL NUMBER(10)

LOAN\_TYPE VARCHAR2(20)

LOAN\_AMT NUMBER(10)

INTEREST\_RATE NUMBER(5,2)

TERM NUMBER(2)

START\_DATE DATE

END\_DATE DATE

STATUS VARCHAR2(20)

>create table loan\_payment (

loan\_payment\_id number(10) primary key,

scheduled date,

principle\_amt number(10),

interest\_amt number(10),

paid\_amt number(10),

paid\_date date

);

>desc loan\_payment

Name Null? Type

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

LOAN\_PAYMENT\_ID NOT NULL NUMBER(10)

SCHEDULED DATE

PRINCIPLE\_AMT NUMBER(10)

INTEREST\_AMT NUMBER(10)

PAID\_AMT NUMBER(10)

PAID\_DATE DATE

>create table transaction (

transaction\_id number(10) primary key,

transaction\_type varchar2(20),

amount number(10),

transaction\_date date

);

>desc transaction

Name Null? Type

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

TRANSACTION\_ID NOT NULL NUMBER(10)

TRANSACTION\_TYPE VARCHAR2(20)

AMOUNT NUMBER(10)

TRANSACTION\_DATE DATE

>create table branch (

branch\_id number(10) primary key,

branch\_name varchar2(20),

branch\_code number(10),

address varchar2(100),

phone\_no number(10)

);

>desc branch

Name Null? Type

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

BRANCH\_ID NOT NULL NUMBER(10)

BRANCH\_NAME VARCHAR2(20)

BRANCH\_CODE NUMBER(10)

ADDRESS VARCHAR2(100)

PHONE\_NO NUMBER(10)

EXPERIMENT NO:2 DATE:22.08.2024

DML COMMANDS

AIM:

> insert into customer values ('C1000', 'JOHN', 'MICHAEL', 'SMITH', 'KOLKATA', 7854157815, 'DOCTOR', to\_date('24-SEP-00', 'DD-MON-YY'));

> insert into customer values ('C1001', 'JAMES', NULL, 'BOND', 'MUMBAI', 7856565434, 'POLICE OFFICER', to\_date('28-SEP-00', 'DD-MON-YY'));

> insert into customer values ('C1002', 'PRIYA', NULL, 'DHARSHINI', 'MUMBAI', 7856565439, 'TEACHER', to\_date('29-SEP-01', 'DD-MON-YY'));

> insert into customer values ('C1003', 'SATHISH', NULL, 'VARMA', 'CHENNAI', 7856565479, 'MANAGER', to\_date('29-NOV-01', 'DD-MON-YY'));

> insert into customer values ('C1004', 'LAKSHMAN', NULL, 'GUPTA', 'JAIPUR', 7856567479, 'ENGINEER', to\_date('29-NOV-02', 'DD-MON-YY'));

> insert into customer values ('C1005', 'SMIRITI', NULL, 'GUPTA', 'DELHI', 7856767479, 'PILOT', to\_date('29-MAR-02', 'DD-MON-YY'));

> insert into customer values ('C1006', 'SANJAY', NULL, 'KUMAR', 'AGRA', 7856867479, 'TEACHER', to\_date('29-MAR-05', 'DD-MON-YY'));

> insert into customer values ('C1007', 'SACHIN', NULL, 'KUMAR', 'MADURAI', 7858867479, 'FIREMAN', to\_date('29-APR-05', 'DD-MON-YY'));

> insert into customer values ('C1008', 'SREE', NULL, 'HASINI', 'SALEM', 7898867479, 'PHOTOGRAPHER', to\_date('29-AUG-05', 'DD-MON-YY'));

> insert into customer values ('C1009', 'SREE', 'VENKAT', 'HASINI', 'SALEM', 7898867979, 'MANAGER', to\_date('28-AUG-05', 'DD-MON-YY'));

> select \* from customer;

CUSTOMER\_I F\_NAME M\_NAME L\_NAME CITY MOBILE\_NO OCCUPATION DOB

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

C1000 JOHN MICHAEL SMITH KOLKATA 7854157815 DOCTOR 24-SEP-00

C1001 JAMES BOND MUMBAI 7856565434 POLICE OFFICER 28-SEP-00

C1002 PRIYA DHARSHINI MUMBAI 7856565439 TEACHER 29-SEP-01

C1003 SATHISH VARMA CHENNAI 7856565479 MANAGER 29-NOV-01

C1004 LAKSHMAN GUPTA JAIPUR 7856567479 ENGINEER 29-NOV-02

C1005 SMIRITI GUPTA DELHI 7856767479 PILOT 29-MAR-02

C1006 SANJAY KUMAR AGRA 7856867479 TEACHER 29-MAR-05

C1007 SACHIN KUMAR MADURAI 7858867479 FIREMAN 29-APR-05

C1008 SREE HASINI SALEM 7898867479 PHOTOGRAPHER 29-AUG-05

C1009 SREE VENKAT HASINI SALEM 7898867979 MANAGER 28-AUG-05

> insert into account values (554656, 'savings', to\_date('24-SEP-2007', 'YYYY-MM-DD'), NULL, 'active', 1400000);

> insert into account values (559856, 'current', to\_date('23-SEP-2007', 'YYYY-MM-DD'), NULL, 'active', 200000);

> insert into account values (559898, 'fixed deposit', to\_date('28-SEP-2007', 'YYYY-MM-DD'), NULL, 'active', 500000);

> insert into account values (579898, 'savings', to\_date('28-AUG-2007', 'YYYY-MM-DD'), NULL, 'active', 580000);

> insert into account values (578998, 'savings', to\_date('28-JAN-2008', 'YYYY-MM-DD'), NULL, 'active', 560000);

> insert into account values (565998, 'savings', to\_date('28-AUG-2008', 'YYYY-MM-DD'), NULL, 'active', 600000);

> insert into account values (567798, 'savings', to\_date('28-NOV-2008', 'YYYY-MM-DD'), NULL, 'active', 700000);

> insert into account values (568898, 'savings', to\_date('28-DEC-2009', 'YYYY-MM-DD'), NULL, 'active', 800000);

> insert into account values (569998, 'savings', to\_date('28-MAY-2009', 'YYYY-MM-DD'), NULL, 'active', 900000);

> insert into account values (599998, 'savings', to\_date('28-OCT-2009', 'YYYY-MM-DD'), NULL, 'active', 1000000);

> select \* from account;

ACC\_NO ACC\_TYPE DATE\_OPEN DATE\_CLOS ACC\_STATUS BALANCE

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

554656 SAVINGS 24-SEP-07 ACTIVE 1400000

559856 CURRENT 23-SEP-07 ACTIVE 200000

559898 FIXED DEPOSIT 28-SEP-07 ACTIVE 500000

579898 SAVINGS 28-AUG-07 ACTIVE 580000

578998 SAVINGS 28-JAN-08 ACTIVE 560000

565998 SAVINGS 28-AUG-08 ACTIVE 600000

567798 SAVINGS 28-NOV-08 ACTIVE 700000

568898 SAVINGS 28-DEC-09 ACTIVE 800000

569998 SAVINGS 28-MAY-09 ACTIVE 900000

599998 SAVINGS 28-OCT-09 ACTIVE 1000000

> insert into loan values (6987546979, 'personal', 100000, 2, 3, to\_date('24-SEP-2002', 'YYYY-MM-DD'), to\_date('25-SEP-2005', 'YYYY-MM-DD'), 'active');

> insert into loan values (6987986979, 'education', 300000, 3, 4, to\_date('26-JAN-2001', 'YYYY-MM-DD'), to\_date('26-JAN-2004', 'YYYY-MM-DD'), 'active');

> insert into loan values (6999986979, 'house', 500000, 5, 5, to\_date('26-JAN-2002', 'YYYY-MM-DD'), to\_date('26-JAN-2007', 'YYYY-MM-DD'), 'active');

> insert into loan values (9999986979, 'personal', 500000, 2, 5, to\_date('23-FEB-2002', 'YYYY-MM-DD'), to\_date('23-FEB-2007', 'YYYY-MM-DD'), 'active');

> insert into loan values (9899986979, 'personal', 500000, 2, 5, to\_date('23-FEB-2002', 'YYYY-MM-DD'), to\_date('23-FEB-2007', 'YYYY-MM-DD'), 'active');

> insert into loan values (9989986979, 'personal', 500000, 2, 5, to\_date('23-FEB-2002', 'YYYY-MM-DD'), to\_date('23-FEB-2007', 'YYYY-MM-DD'), 'closed');

> insert into loan values (9998986979, 'personal', 500000, 2, 5, to\_date('23-FEB-2002', 'YYYY-MM-DD'), to\_date('23-FEB-2007', 'YYYY-MM-DD'), 'cancelled');

> insert into loan values (9999886979, 'personal', 600000, 3, 5, to\_date('24-FEB-2002', 'YYYY-MM-DD'), to\_date('24-FEB-2007', 'YYYY-MM-DD'), 'active');

> insert into loan values (9999886979, 'personal', 600000, 3, 6, to\_date('24-FEB-2003', 'YYYY-MM-DD'), to\_date('24-FEB-2007', 'YYYY-MM-DD'), 'active');

> insert into loan values (9999996979, 'house', 500000, 3, 7, to\_date('24-FEB-2003', 'YYYY-MM-DD'), to\_date('24-FEB-2007', 'YYYY-MM-DD'), 'active');

>select \* from loan;

LOAN\_NO LOAN\_TYPE LOAN\_AMT INTEREST\_RATE TERM START\_DAT END\_DATE STATUS

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

6987546979 PERSONAL 100000 2 3 24-SEP-02 25-SEP-05 ACTIVE

6987986979 EDUCATION 300000 3 4 26-JAN-01 26-JAN-04 ACTIVE

6999986979 HOUSE 500000 5 5 26-JAN-02 26-JAN-07 ACTIVE

9999986979 PERSONAL 500000 2 5 23-FEB-02 23-FEB-07 ACTIVE

9899986979 PERSONAL 500000 2 5 23-FEB-02 23-FEB-07 ACTIVE

9989986979 PERSONAL 500000 2 5 23-FEB-02 23-FEB-07 CLOSED

9998986979 PERSONAL 500000 2 5 23-FEB-02 23-FEB-07 CANCELLED

9999886979 PERSONAL 600000 3 5 24-FEB-02 24-FEB-07 ACTIVE

9999886979 PERSONAL 600000 3 6 24-FEB-03 24-FEB-07 ACTIVE

9999996979 HOUSE 500000 3 7 24-FEB-03 24-FEB-07 ACTIVE

> insert into loan\_payment values (5466848759, '24-JAN-04', 50000, 500, 25000, '29-JAN-03');

> insert into loan\_payment values (5499848759, '24-JAN-05', 500000, 5000, 250000, '29-JAN-01');

> insert into loan\_payment values (9499848759, '14-JAN-05', 10000, 200, 50000, '29-JAN-01');

> insert into loan\_payment values (9599848759, '15-JAN-05', 200000, 2000, 50000, '25-JAN-01');

> insert into loan\_payment values (9599898759, '16-JAN-05', 50000, 1500, 25000, '25-JAN-02');

> insert into loan\_payment values (9599898789, '16-JAN-05', 50000, 1500, 25000, '25-JAN-02');

> insert into loan\_payment values (9585898789, '19-JAN-05', 50000, 1500, 25000, '25-JAN-01');

> insert into loan\_payment values (9585889789, '19-JAN-05', 25000, 500, 2000, '25-JAN-01');

> insert into loan\_payment values (9585889889, '19-JAN-05', 24000, 240, 20000, '25-JAN-01');

> insert into loan\_payment values (9885889889, '19-JAN-05', 23000, 230, 20000, '28-JAN-01');

SQL> select \* from loan\_payment;

LOAN\_PAYMENT\_ID SCHEDULED PRINCIPLE\_AMT INTEREST\_AMT PAID\_AMT PAID\_DATE

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

5466848759 24-JAN-04 50000 500 25000 29-JAN-03

5499848759 24-JAN-05 500000 5000 250000 29-JAN-01

9499848759 14-JAN-05 10000 200 50000 29-JAN-01

9599848759 15-JAN-05 200000 2000 50000 25-JAN-01

9599898759 16-JAN-05 50000 1500 25000 25-JAN-02

9599898789 16-JAN-05 50000 1500 25000 25-JAN-02

9585898789 19-JAN-05 50000 1500 25000 25-JAN-01

9585889789 19-JAN-05 25000 500 2000 25-JAN-01

9585889889 19-JAN-05 24000 240 20000 25-JAN-01

9885889889 19-JAN-05 23000 230 20000 28-JAN-01

> insert into transaction values (5665456465, 'DEPOSIT', 60000, '24-JAN-05');

> insert into transaction values (5669456465, 'WITHDRAWAL', 70000, '24-JAN-06');

> insert into transaction values (5669856465, 'WITHDRAWAL', 50000, '24-JAN-07');

> insert into transaction values (5999856465, 'DEPOSIT', 80000, '24-FEB-07');

> insert into transaction values (5569856465, 'DEPOSIT', 70000, '24-FEB-08');

> insert into transaction values (5869856465, 'DEPOSIT', 70000, '24-FEB-08');

> insert into transaction values (5869858465, 'DEPOSIT', 80000, '24-FEB-08');

> insert into transaction values (5869578465, 'DEPOSIT', 25000, '24-FEB-09');

> insert into transaction values (5999578465, 'DEPOSIT', 26000, '24-FEB-09');

> insert into transaction values (5998578465, 'DEPOSIT', 27000, '24-FEB-08');

> select \* from transaction;

TRANSACTION\_ID TRANSACTION\_TYPE AMOUNT TRANSACTION \_DATE

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

5665456465 DEPOSIT 60000 24-JAN-05

5669456465 WITHDRAWAL 70000 24-JAN-06

5669856465 WITHDRAWAL 50000 24-JAN-07

5999856465 DEPOSIT 80000 24-FEB-07

5569856465 DEPOSIT 70000 24-FEB-08

5869856465 DEPOSIT 70000 24-FEB-08

5869858465 DEPOSIT 80000 24-FEB-08

5869578465 DEPOSIT 25000 24-FEB-09

5999578465 DEPOSIT 26000 24-FEB-09

5998578465 DEPOSIT 27000 24-FEB-08

> insert into branch values (65669, 'coimbatore', '5646', '11/8,VS NAGAR,CHENNAI', '9647856479');

> insert into branch values (65469, 'KOVAI', '5646', '14/8,SAINT STREET,CHENNAI', '9647855479');

> insert into branch values (65485, 'SALEM', '565654', '16/7,SAIN STREET,CHENNAI', '9647854579');

> insert into branch values (654549, 'SALEM', '565654', 'SAIN STREET,CHENNAI', '964778459');

> insert into branch values (6556449, 'KOVAI', '565654', 'VS STREET,CHENNAI', '964548459');

> insert into branch values (6556449, 'CHENNAI', '565584', 'JS STREET,CHENNAI', '964545459');

> insert into branch values (6558549, 'CHENNAI', '565584', 'MINI STREET,CHENNAI', '964599459');

> insert into branch values (655949, 'CHENNAI', '565584', 'MIN STREET,CHENNAI', '964859459');

> insert into branch values (655849, 'PONDICHERRY', '565584', 'FRACO STREET,CHENNAI', '9648599559');

> insert into branch values (655849, 'CHENGALPATTU', '565584', 'CHOCOLATE STREET,CHENNAI', '9648525559');

SQL> select \* from branch;

BRANCH\_ID BRANCH\_NAME BRANCH\_CODE ADDRESS PHONE\_NO

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

65669 coimbatore 5646 11/8,VS NAGAR,CHENNAI 9647856479

65469 KOVAI 5646 14/8,SAINT STREET,CHENNAI 9647855479

65485 SALEM 565654 16/7,SAIN STREET,CHENNAI 9647854579

654549 SALEM 565654 SAIN STREET,CHENNAI 964778459

6556449 KOVAI 565654 VS STREET,CHENNAI 964548459

6556449 CHENNAI 565584 JS STREET,CHENNAI 964545459

6558549 CHENNAI 565584 MINI STREET,CHENNAI 964599459

655949 CHENNAI 565584 MIN STREET,CHENNAI 964859459

655849 PONDICHERRY 565584 FRACO STREET,CHENNAI 9648599559

655849 CHENGALPATTU 565584 CHOCOLATE STREET,CHENNAI 9648525559