**COMIC STORE DATABASE MANAGEMENT SYSTEM - MINIPROJECT**

**CREATING TABLE MANAGER**

SQL> create table manager(manager\_name varchar(30),manager\_id numeric(18,4), primary key(manager\_id));

Table created.

SQL> desc manager;

Name Null? Type

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

MANAGER\_NAME VARCHAR2(30)

MANAGER\_ID NOT NULL NUMBER(18,4)

**CREATING TABLE CUSTOMER**

SQL> create table customer(customer\_name varchar(30),customer\_id numeric(18,4), primary key(customer\_id));

Table created.

SQL> desc customer;

Name Null? Type

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

CUSTOMER\_NAME VARCHAR2(30)

CUSTOMER\_ID NOT NULL NUMBER(18,4)

**CREATING TABLE CATEGORY**

SQL> create table category(code numeric(18,4), description varchar(40), total\_parts numeric(16,3), primary key(code));

Table created.

SQL> desc category;

Name Null? Type

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

CODE NOT NULL NUMBER(18,4)

DESCRIPTION VARCHAR2(40)

TOTAL\_PARTS NUMBER(16,3)

**CREATING TABLE COMICS**

SQL> create table comics(book\_name varchar(40), book\_id numeric(18,4), code numeric(18,4), price numeric(18,4), main\_character varchar(30), check(price>0), primary key(book\_name));

Table created.

SQL> desc comics;

Name Null? Type

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

BOOK\_NAME NOT NULL VARCHAR2(40)

BOOK\_ID NUMBER(18,4)

CODE NUMBER(18,4)

PRICE NUMBER(18,4)

MAIN\_CHARACTER VARCHAR2(30)

**CREATING TABLE ORDERS**

SQL> create table orders(order\_id numeric(18,4), customer\_id numeric(18,4), book\_name varchar(40), order\_date varchar(30),manager\_id numeric(18,4) , primary key(order\_id));

Table created.

SQL> desc orders;

Name Null? Type

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

ORDER\_ID NOT NULL NUMBER(18,4)

CUSTOMER\_ID NUMBER(18,4)

BOOK\_NAME VARCHAR2(40)

ORDER\_DATE VARCHAR2(30)

MANAGER\_ID NUMBER(18,4)

**INSERTING VALUES INTO CATEGORY TABLE**

SQL> insert into category values('101','DC','4');

1 row created.

SQL> insert into category values('102','Marvel','4');

1 row created.

SQL> insert into category values('103','Harry Potter','5');

1 row created.

SQL> insert into category values('104','Disney','4');

1 row created.

SQL> select \* from category;

CODE DESCRIPTION TOTAL\_PARTS

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

101 DC 4

102 Marvel 4

103 Harry Potter 5

104 Disney 4

**INSERTING VALUES INTO COMICS TABLE**

SQL> insert into comics values('Justice League', '1001', '101', '200', 'Darkseid');

1 row created.

SQL> insert into comics values('Man of Steel', '1002', '101', '250', 'Superman');

1 row created.

SQL> insert into comics values('The Dark Knight', '1003', '101', '250', 'Batman');

1 row created.

SQL> insert into comics values('Fastest Man Alive', '1004', '101', '200', 'Flash');

1 row created.

SQL> insert into comics values('Avengers', '1010', '102', '150', 'Captain America');

1 row created.

SQL> insert into comics values('Xmen', '1011', '102', '170', 'Wolverine');

1 row created.

SQL> insert into comics values('Far From Home', '1012', '102', '200', 'Spiderman');

1 row created.

SQL> insert into comics values('Endgame', '1013', '102', '300', 'Ironman');

1 row created.

SQL> insert into comics values('Half Blood Prince', '1020', '103', '100', 'Snape');

1 row created.

SQL> insert into comics values('Prisoner of Azkaban', '1021', '103', '100', 'Sirius Black');

1 row created.

SQL> insert into comics values('Deathly Hallows', '1022', '103', '100', 'Voldemort');

1 row created.

SQL> insert into comics values('Chamber of Secrets', '1023', '103', '100', 'Tom Riddle');

1 row created.

SQL> insert into comics values('Order of the Phoenix', '1024', '103', '100', 'Harry Potter');

1 row created.

SQL> insert into comics values('Lion King', '1030', '104', '150', 'Simba');

1 row created.

SQL> insert into comics values('Toy Story', '1031', '104', '80', 'Barbie');

1 row created.

SQL> insert into comics values('Mickey Mouse', '1032', '104', '100', 'Mickey');

1 row created.

SQL> insert into comics values('Tales of Aladdin', '1033', '104', '100', 'Aladdin');

1 row created.

SQL> select \* from comics;

BOOK\_NAME BOOK\_ID CODE PRICE

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

MAIN\_CHARACTER

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

Justice League 1001 101 200

Darkseid

Man of Steel 1002 101 250

Superman

The Dark Knight 1003 101 250

Batman

Fastest Man Alive 1004 101 200

Flash

Avengers 1010 102 150

Captain America

Xmen 1011 102 170

Wolverine

Far From Home 1012 102 200

Spiderman

Endgame 1013 102 300

Ironman

Half Blood Prince 1020 103 100

Snape

Prisoner of Azkaban 1021 103 100

Sirius Black

Deathly Hallows 1022 103 100

Voldemort

Chamber of Secrets 1023 103 100

Tom Riddle

Order of the Phoenix 1024 103 100

Harry Potter

Lion King 1030 104 150

Simba

Toy Story 1031 104 80

Barbie

Mickey Mouse 1032 104 100

Mickey

Tales of Aladdin 1033 104 100

Aladdin

**17 rows selected.**

**INSERTING VALUES INTO MANAGER TABLE**

SQL> insert into manager values('managerA', '2018');

1 row created.

SQL> insert into manager values('managerB', '2019');

1 row created.

SQL> insert into manager values('managerC', '2017');

1 row created.

SQL> select \* from manager;

MANAGER\_NAME MANAGER\_ID

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

managerA 2018

managerB 2019

managerC 2017

**INSERTING VALUES INTO CUSTOMER TABLE**

SQL> insert into customer values('muskan', '01');

1 row created.

SQL> insert into customer values('akul', '02');

1 row created.

SQL> insert into customer values('naman', '03');

1 row created.

SQL> insert into customer values('yash', '04');

1 row created.

SQL> insert into customer values('vishu', '05');

1 row created.

SQL> insert into customer values('tanvi', '06');

1 row created.

SQL> insert into customer values('dhruv', '07');

1 row created.

SQL> insert into customer values('shubhi', '08');

1 row created.

SQL> insert into customer values('yashi', '09');

1 row created.

SQL> insert into customer values('krati', '10');

1 row created.

SQL> insert into customer values('harsh', '11');

1 row created.

SQL> insert into customer values('mayank', '12');

1 row created.

SQL> insert into customer values('shreya', '13');

1 row created.

SQL> select \* from customer;

CUSTOMER\_NAME CUSTOMER\_ID

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

muskan 1

akul 2

naman 3

yash 4

vishu 5

tanvi 6

dhruv 7

shubhi 8

yashi 9

krati 10

harsh 11

mayank 12

shreya 13

**13 rows selected.**

**INSERTING INTO ORDERS TABLE**

SQL> insert into orders values('10001', '2', 'The Dark Knight', '20 Sept 2019','2018');

1 row created.

SQL> insert into orders values('10002', '1', 'Prisoner of Azkaban', '08 Sept 2019','2018');

1 row created.

SQL> insert into orders values('10003', '5', 'Avengers', '08 Sept 2019','2019');

1 row created.

SQL> insert into orders values('10004', '10', 'Lion King', '06 Sept 2019','2017');

1 row created.

SQL> insert into orders values('10005', '11', 'Lion King', '06 Sept 2019','2018');

1 row created.

SQL> insert into orders values('10006', '2', 'Fastest Man Alive', '20 Sept 2019','2019');

1 row created.

SQL> insert into orders values('10007', '8', 'Half Blood Prince', '21 Sept 2019','2019');

1 row created.

SQL> insert into orders values('10008', '7', 'Far From Home', '21 Sept 2019','2017');

1 row created.

SQL> insert into orders values('10009', '13', 'Tales of Aladdin', '22 Sept 2019','2017');

1 row created.

SQL> insert into orders values('10010', '3', 'Xmen', '22 Sept 2019','2017');

1 row created.

SQL> insert into orders values('10011', '1', 'Chamber of Secrets', '22 Sept 2019','2018');

1 row created.

SQL> insert into orders values('10012', '6', 'Mickey Mouse', '22 Sept 2019','2017');

1 row created.

SQL> insert into orders values('10013', '12', 'Justice League', '22 Sept 2019','2017');

1 row created.

SQL> select \* from orders;

ORDER\_ID CUSTOMER\_ID BOOK\_NAME

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

ORDER\_DATE MANAGER\_ID

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

10001 2 The Dark Knight

20 Sept 2019 2018

10002 1 Prisoner of Azkaban

08 Sept 2019 2018

10003 5 Avengers

08 Sept 2019 2019

10004 10 Lion King

06 Sept 2019 2017

10005 11 Lion King

06 Sept 2019 2018

10006 2 Fastest Man Alive

20 Sept 2019 2019

10007 8 Half Blood Prince

21 Sept 2019 2019

10008 7 Far From Home

21 Sept 2019 2017

10009 13 Tales of Aladdin

22 Sept 2019 2017

10010 3 Xmen

22 Sept 2019 2017

10011 1 Chamber of Secrets

22 Sept 2019 2018

10012 6 Mickey Mouse

22 Sept 2019 2017

10013 12 Justice League

22 Sept 2019 2017

**13 rows selected.**

SQL> set serveroutput on

**CREATING A TRIGGER TO DISPLAY PRICE DIFFERENCE WHEN PRICE FOR A BOOK IS UPDATED IN THE COMICS TABLE**

SQL> ed

Wrote file afiedt.buf

1 CREATE OR REPLACE TRIGGER display\_price\_change\_diff

2 BEFORE DELETE OR INSERT OR UPDATE ON comics

3 FOR EACH ROW

4 DECLARE

5 price\_diff number;

6 BEGIN

7 price\_diff := :NEW.price - :OLD.price;

8 dbms\_output.put\_line('Old price: ' || :OLD.price);

9 dbms\_output.put\_line('New price: ' || :NEW.price);

10 dbms\_output.put\_line('Price difference: ' || price\_diff);

11\* END;

SQL> /

**Trigger created.**

SQL> update comics set price = 300 where book\_name='Justice League';

**Old price: 200**

**New price: 300**

**Price difference: 100**

1 row updated.

SQL> update comics set price = 300 where book\_name='Toy Story';

**Old price: 80**

**New price: 300**

**Price difference: 220**

1 row updated.