\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**EXERCISE - 2**

**Question 1:- Students Table Create a table named Students with the following columns:**

**· student\_id as the primary key**

**· first\_name of type VARCHAR2 with a maximum length of 50 (not null)**

**· last\_name of type VARCHAR2 with a maximum length of 50 (not null)**

**· birthdate of type DATE (not null)**

create table Students(

student\_id int primary key,

first\_name varchar2(50) not null,

last\_name varchar2(50) not null,

birthdate date not null

);

desc Students;

Name Null? Type

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

STUDENT\_ID NOT NULL NUMBER(38)

FIRST\_NAME NOT NULL VARCHAR2(50)

LAST\_NAME NOT NULL VARCHAR2(50)

BIRTHDATE NOT NULL DATE

-------------insert data in student table-------------------

insert into Students(student\_id,first\_name,last\_name,birthdate)

VALUES (1,'Alice','Johnson','05-01-2000');

insert into Students(student\_id,first\_name,last\_name,birthdate)

VALUES (2,'Mark','Smith','15-11-2001');

insert into Students(student\_id,first\_name,last\_name,birthdate)

VALUES (3,'Emily','Davis','30-04-1999');

insert into Students(student\_id,first\_name,last\_name,birthdate)

VALUES (4,'Michael','Brown','08-07-1998');

insert into Students(student\_id,first\_name,last\_name,birthdate)

VALUES (5,'Sophia','Wilson','12-09-2002');

-------------------output data----------------

select \* from Students;

STUDENT\_ID FIRST\_NAME LAST\_NAME BIRTHDATE

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_

1 Alice Johnson 05-01-00

2 Mark Smith 15-11-01

3 Emily Davis 30-04-99

4 Michael Brown 08-07-98

5 Sophia Wilson 12-09-02

==========================================================================

**Question 2:- Products Table Create a table named Products with the following columns:**

**· product\_id as the primary key**

**· product\_name of type VARCHAR2 with a maximum length of 100 (not null)**

**· price of type NUMBER with precision 10 and scale 2 (not null)**

**· quantity\_in\_stock of type NUMBER with precision 5 (not null**)

create table Products(

product\_id int primary key,

product\_name varchar2(100) not null,

price number(10,2) not null,

quantity\_in\_stock number(5) not null

);

desc Products;

Name Null? Type

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

PRODUCT\_ID NOT NULL NUMBER(38)

PRODUCT\_NAME NOT NULL VARCHAR2(100)

PRICE NOT NULL NUMBER(10,2)

QUANTITY\_IN\_STOCK NOT NULL NUMBER(5)

----------------------insert data in Products table-----------------------

insert into Products(product\_id,product\_name,price,quantity\_in\_stock)

VALUES (1,'Tablet',299.99,50);

insert into Products(product\_id,product\_name,price,quantity\_in\_stock)

VALUES (2,'Bluetooth Speaker',39.99,150);

insert into Products(product\_id,product\_name,price,quantity\_in\_stock)

VALUES (3,'Camera',599.00,25);

insert into Products(product\_id,product\_name,price,quantity\_in\_stock)

VALUES (4,'External Hard Drive',89.50,80);

insert into Products(product\_id,product\_name,price,quantity\_in\_stock)

VALUES (5,'Wireless Mouse',19.99,200);

-----------------------------output data--------------------------

select \* from Products;

PRODUCT\_ID PRODUCT\_NAME PRICE QUANTITY\_IN\_STOCK

\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 Tablet 299.99 50

2 Bluetooth Speaker 39.99 150

3 Camera 599 25

4 External Hard Drive 89.5 80

5 Wireless Mouse 19.99 200

==========================================================================

Question 3:- **Employees Table Create a table named Employees with the following columns:**

**· employee\_id as the primary key**

**· first\_name of type VARCHAR2 with a maximum length of 50 (not null)**

**· last\_name of type VARCHAR2 with a maximum length of 50 (not null)**

**· hire\_date of type DATE (not null)**

**· salary of type NUMBER with precision 10 and scale 2 (not null)**

DROP TABLE Employees purge;

create table Employees(

employee\_id int primary key,

first\_name varchar2(50) not null,

last\_name varchar2(50) not null,

hire\_date date not null,

salary number(10,2) not null);

Name Null? Type

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

EMPLOYEE\_ID NOT NULL NUMBER(38)

FIRST\_NAME NOT NULL VARCHAR2(50)

LAST\_NAME NOT NULL VARCHAR2(50)

HIRE\_DATE NOT NULL DATE

SALARY NOT NULL NUMBER(10,2)

---------------------insert data in Employees table---------------------

insert into Employees(employee\_id,first\_name,last\_name,hire\_date,salary)

VALUES (1,'David','Johnson','10-03-2023',55000.00);

insert into Employees(employee\_id,first\_name,last\_name,hire\_date,salary)

VALUES (2,'Jessica','Williams','20-01-2022',60000.00);

insert into Employees(employee\_id,first\_name,last\_name,hire\_date,salary)

VALUES (3,'Daniel','Brown','05-06-2023',48000.00);

insert into Employees(employee\_id,first\_name,last\_name,hire\_date,salary)

VALUES (4,'Laura','Davis','02-11-2022',52000.00);

insert into Employees(employee\_id,first\_name,last\_name,hire\_date,salary)

VALUES (5,'Matthew','Wilson','15-08-2023',54000.00);

-----------------------------output data--------------------------

select \* from Employees;

EMPLOYEE\_ID FIRST\_NAME LAST\_NAME HIRE\_DATE SALARY

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_

1 David Johnson 10-03-23 55000

2 Jessica Williams 20-01-22 60000

3 Daniel Brown 05-06-23 48000

4 Laura Davis 02-11-22 52000

5 Matthew Wilson 15-08-23 54000

=========================================================================

Question 4:- **Orders Table Create a table named Orders with the following columns:**

**· order\_id as the primary key**

**· order\_date of type DATE (not null)**

**· customer\_name of type VARCHAR2 with a maximum length of 100 (not null)**

**· total\_amount of type NUMBER with precision 10 and scale 2 (not null)**

create table Orders(

order\_id int primary key,

order\_date date not null,

customer\_name varchar2(100) not null,

total\_amount number(10,2) not null

);

Name Null? Type

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

ORDER\_ID NOT NULL NUMBER(38)

ORDER\_DATE NOT NULL DATE

CUSTOMER\_NAME NOT NULL VARCHAR2(100)

TOTAL\_AMOUNT NOT NULL NUMBER(10,2)

--------------------insert data in Employees table-----------------------

insert into Orders(order\_id,order\_date,customer\_name,total\_amount)

VALUES (1,'18-08-2023','John Smith',125.75);

insert into Orders(order\_id,order\_date,customer\_name,total\_amount)

VALUES (2,'18-08-2023','Mary Johnson',95.50);

insert into Orders(order\_id,order\_date,customer\_name,total\_amount)

VALUES (3,'18-08-2023','Robert Davis',200.25);

insert into Orders(order\_id,order\_date,customer\_name,total\_amount)

VALUES (4,'18-08-2023','Jennifer Wilson',150.00);

insert into Orders(order\_id,order\_date,customer\_name,total\_amount)

VALUES (5,'18-08-2023','Emily Brown',80.99);

-----------------------------output data--------------------------

select \* from Orders;

ORDER\_ID ORDER\_DATE CUSTOMER\_NAME TOTAL\_AMOUNT

\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1 18-08-23 John Smith 125.75

2 18-08-23 Mary Johnson 95.5

3 18-08-23 Robert Davis 200.25

4 18-08-23 Jennifer Wilson 150

5 18-08-23 Emily Brown 80.99

========================================================================

Question 5: **Books Table Create a table named Books with the following columns:**

**· book\_id as the primary key**

**· title of type VARCHAR2 with a maximum length of 200 (not null)**

**· author of type VARCHAR2 with a maximum length of 150 (not null)**

**· publication\_date of type DATE (not null)**

**· price of type NUMBER with precision 10 and scale 2 (not null)**

create table Books(

book\_id int primary key,

title varchar2(200) not null,

author varchar2(150) not null,

publication\_date date not null,

price number(10,2) not null

);

desc books;

Name Null? Type

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

BOOK\_ID NOT NULL NUMBER(38)

TITLE NOT NULL VARCHAR2(200)

AUTHOR NOT NULL VARCHAR2(150)

PUBLICATION\_DATE NOT NULL DATE

PRICE NOT NULL NUMBER(10,2)

--------------------insert data in Employees table---------------------

insert into Books(book\_id,title,author,publication\_date,price)

VALUES (1,'1984','George Orwell','08-06-1949',11.99);

insert into Books(book\_id,title,author,publication\_date,price)

VALUES (2,'Pride and Prejudice','Jane Austen','28-01-1813',9.50);

insert into Books(book\_id,title,author,publication\_date,price)

VALUES (3,'The Catcher in the Rye','J.D. Salinger','16-07-1951',12.25);

insert into Books(book\_id,title,author,publication\_date,price)

VALUES (4,'The Lord of the Rings','J.R.R. Tolkien','29-07-1954',18.99);

insert into Books(book\_id,title,author,publication\_date,price)

VALUES(5,'Harry Potter and the Sorcerer Stone','J.K. Rowling','26-06-1997',14.50);

select \* from Books;

BOOK\_

ID TITLE AUTHOR PUBLICATION\_DATE PRICE

\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

1 1984 George Orwell 08-06-49 11.99

2 Pride and Prejudice Jane Austen 28-01-13 9.5

3 The Catcher in

the Rye J.D. Salinger 16-07-51 12.25

4 The Lord of

the Rings J.R.R. Tolkien 29-07-54 18.99

5 Harry Potter and the

Sorcerer Stone J.K. Rowling 26-06-97 14.5

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