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**BATCH-34**

**ASSIGNMENT-1**

## QUESTION-1

Q1. Create an employee table with fields Emp\_ID, FirstName, LastName, Dept, Designation, Experience, Salary.

```
SQL> connect
Enter user-name: system
Enter password:
Connected.
SQL> create table employee_2155(empid number(3),firstname varchar(50),lastname varchar(50),dept varchar(50),designation varchar(50),experience number(10), salary number(10));
Table created.

SQL> insert into employee_2155 values (101,'Shailaja','Kanukuntla','CSE','professor',10,50000);
1 row created.

SQL> insert into employee_2155 values(102,'Himaja','rama','ECE','lecturer',5,30000);
1 row created.

SQL> insert into employee_2155 values(103,'Mahender','Nagula','EEE','asst professor',11,100000);
1 row created.

SQL> insert into employee_2155 values(104,'Mamata','Pandey','MECH','Tutor',2,28000);
1 row created.

SQL> insert into employee_2155 values(105,'Shashikala','Martha','CSE','HOD',7,10000);
1 row created.
```

## Queries:

1. Create the schema/structure for the above employee table.
2. Insert atleast 5 records.

```
SQL> select * from employee_2155;
```

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY
101	Shailaja	Kanukuntla	CSE	professor	10	50000

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY
102	Himaja	rama	ECE	lecturer	5	30000

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY
103	Mahender	Nagula				

```
Nagula
EEE
asst professor          11      100000
```

```
      EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION          EXPERIENCE      SALARY
-----
      104 Mamata
Pandey
MECH
Tutor                  2      28000
```

```
      EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION          EXPERIENCE      SALARY
-----
      105 Shashikala
Martha
CSE
HOD                    7      10000
```

3. Retrieve the FirstName, LastName and salary of the employees.

```
SQL> select firstname,lastname,salary from employee_2155;
```

FIRSTNAME	LASTNAME	SALARY
Shailaja	Kanukuntla	50000
Himaja	rama	30000
Mahender	Nagula	100000

FIRSTNAME	LASTNAME	SALARY
Mamata	Pandey	28000
Shashikala	Martha	10000

```
SQL> commit;
```

Commit complete.

```
SQL> select * from employee_2155  
2  where dept='CSE';
```

EMPID	FIRSTNAME	LASTNAME	DEPT
-------	-----------	----------	------

DEPT		
-----		
DESIGNATION	EXPERIENCE	SALARY
-----		
101 Shailaja		
Kanukuntla		
CSE		
professor	10	50000
EMPID	FIRSTNAME	
-----		
LASTNAME		
-----		
DEPT		
-----		
DESIGNATION	EXPERIENCE	SALARY
-----		
105 Shashikala		
Martha		
CSE		
HOD	7	10000

4. Retrieve the employees who belong to CSE department.

```
SQL> select * from employee_2155
2  where dept='CSE';
```

EMPID FIRSTNAME		
-----		
LASTNAME		
-----		
DEPT		
-----		
DESIGNATION	EXPERIENCE	SALARY
-----	-----	-----
101 Shailaja		
Kanukuntla		
CSE		
professor	10	50000

  

EMPID FIRSTNAME		
-----		
LASTNAME		
-----		
DEPT		
-----		
DESIGNATION	EXPERIENCE	SALARY
-----	-----	-----
105 Shashikala		
Martha		
CSE		
HOD	7	10000

5. Retrieve the Emp\_ID of the employees whose department is ECE and salary is above 50,000.

```
SQL> select empid from employee_2155
2  where dept='ECE'AND salary>50000;

no rows selected
```

6. Update the salary of the employee to 60,000 whose Emp\_ID is 101.

```
SQL> update employee_2155 set salary=60000 where empid=101;

1 row updated.

SQL> select * from employee_2155 where sno=1;
select * from employee_2155 where sno=1
                                     *
ERROR at line 1:
ORA-00904: "SNO": invalid identifier

SQL> select * from employee_2155 where empid=101;

  EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION                                EXPERIENCE    SALARY
-----
101 Shailaja
Kanukuntla
CSE
professor                                10          60000
```

7. Add a new column as Work\_place and update the work\_place of all the employees as SR University.

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY
				WORK_PLACE		
				professor	10	60000
				SR University		

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY
				WORK_PLACE		
				lecturer	5	30000
				SR University		

EMPID	FIRSTNAME			
-----				
LASTNAME				
-----				
DEPT				
-----				
DESIGNATION		EXPERIENCE	SALARY	
-----				
WORK_PLACE				
-----				
asst professor		11	100000	
SR University				



```

      EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION                                EXPERIENCE      SALARY
-----
WORK_PLACE
-----
      104 Mamata
Pandey
MECH

      EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION                                EXPERIENCE      SALARY
-----
WORK_PLACE
-----
Tutor                                     2          28000
SR University

      EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION                                EXPERIENCE      SALARY
-----
WORK_PLACE
-----
      105 Shashikala
Martha

```

```

      105 Shashikala
Martha
CSE

      EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION                                EXPERIENCE      SALARY
-----
WORK_PLACE
-----
HOD                                       7          10000
SR University

```

8. Delete the employee details whose experience is above 10 years.

```

SQL> delete from employee_2155
      2 where experience>10;

1 row deleted.

```

```
SQL> select * from employee_2155;
```

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY	WORK_PLACE
101	Shailaja						Kanukuntla CSE

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY	WORK_PLACE
	professor				10	60000	SR University

```
EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION EXPERIENCE SALARY
-----
WORK_PLACE
-----
102 Himaja
rama
ECE
```

```
EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION EXPERIENCE SALARY
-----
WORK_PLACE
-----
lecturer 5 30000
SR University
```

```
EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION EXPERIENCE SALARY
-----
WORK_PLACE
-----
104 Mamata
```

```

-----
      104 Mamata
Pandey
MECH

      EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION                                EXPERIENCE      SALARY
-----
WORK_PLACE
-----
Tutor                                     2          28000
SR University

      EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION                                EXPERIENCE      SALARY
-----
WORK_PLACE
-----
      105 Shashikala
Martha
CSE

```

```

-----
Martha
CSE

      EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION                                EXPERIENCE      SALARY
-----
WORK_PLACE
-----
HOD                                       7          10000
SR University

```

9. Increment the salary of the employees by 5% whose experience is above 5 years.

```

SQL> update employee_2155 set salary=salary*1.05 where experience >5;

1 row updated.

```

```
SQL> select * from employee_2155;
```

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY	WORK_PLACE
102	Himaja	rama	ECE				

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY	WORK_PLACE
				lecturer	5	30000	SR University

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY	WORK_PLACE
104	Mamata	Pandey	MECH				

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY	WORK_PLACE
				Tutor	2	28000	SR University

```

EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION EXPERIENCE SALARY
-----
WORK_PLACE
-----
      105 Shashikala
Martha
CSE

EMPID FIRSTNAME
-----
LASTNAME
-----
DEPT
-----
DESIGNATION EXPERIENCE SALARY
-----
WORK_PLACE
-----
HOD
SR University
7
10500

```

10. Delete the employees whose experience is above 2 years and salary below 40000.

```

SQL> delete from employee_2155 where experience>2 AND salary<40000;

2 rows deleted.

```

EMPID	FIRSTNAME	LASTNAME	DEPT	DESIGNATION	EXPERIENCE	SALARY
104	Mamata	Pandey	MECH			

EMPID	FIRSTNAME		
-----			
LASTNAME			
-----			
DEPT			
-----			
DESIGNATION		EXPERIENCE	SALARY
-----		-----	-----
WORK_PLACE			
-----			
Tutor		2	28000
SR University			

Commit complete.

Create a Student table with the following fields: Student\_ID, FirstName, LastName, Department, Year, CGPA, and Scholarship.

```
SQL> create table employee_2155(empid number(3),firstname varchar(50),lastname varchar(50),dept varchar(50),designation varchar(50),experience number(10),
salary number(10));
create table employee_2155(empid number(3),firstname varchar(50),lastname varchar(50),dept varchar(50),designation varchar(50),experience number(10), salary
number(10))
*
ERROR at line 1:
ORA-00955: name is already used by an existing object

SQL> create table student_2155(sid number(3),firstname varchar2(50),lastname
varchar(50),dept varchar2(50),year number(5),cgpa number(5),scholarship num
ber(30))
2 ;

Table created.
```

### 1. Create the schema/structure for the student table.

## 2. Insert at least 5 records into the Student table.

```
SQL> insert into student_2155 values(101,'shailaja','kanukuntla','CSE',10.0,35000);
insert into student_2155 values(101,'shailaja','kanukuntla','CSE',10.0,35000)
*
ERROR at line 1:
ORA-00947: not enough values

SQL> insert into student_2155 values(101,
  2  'shailaja','kanukuntla','cse',2025,10.0,35000);

1 row created.

SQL> insert into student_2155 values(102,'sannihitha','adepu','ECE',2026,9.2
,40000);

1 row created.

SQL> insert into student_2155 values(103,'ramalaxmi','merugu','MECH',4,8.0,5
0000);

1 row created.

SQL> insert into student_2155 values(104,'shiva','maduri','CSE',4,5.0,10000)
;

1 row created.

SQL> insert into student_2155 values(105,'ramya','rama','CIVIL',2,9.8,20000)
;

1 row created.

SQL> insert into student_2155 values(106,'madhu','varma','CSE',1,5.8,60000);

1 row created.
```



```
SQL> select * from student_2155;
```

SID	FIRSTNAME	LASTNAME	DEPT	SCHOLARSHIP	YEAR	CGPA
101	shailaja	kanukuntla	cse	35000	2025	10

SID	FIRSTNAME	LASTNAME	DEPT	SCHOLARSHIP	YEAR	CGPA
102	sannihitha	adeputi	ECE	40000	2026	9

SID	FIRSTNAME	LASTNAME	DEPT	SCHOLARSHIP	YEAR	CGPA
103	ramalaxmi	merugu	MECH		4	8

50000				
SID	FIRSTNAME			
-----	-----			
LASTNAME				
-----	-----			
DEPT		YEAR	CGPA	
-----	-----	-----	-----	
SCHOLARSHIP				
-----				
104 shiva				
maduri				
CSE		4	5	
10000				
SID	FIRSTNAME			
-----	-----			
LASTNAME				
-----	-----			
DEPT		YEAR	CGPA	
-----	-----	-----	-----	
SCHOLARSHIP				
-----				
105 ramya				
rama				
CIVIL		2	10	
20000				
SID	FIRSTNAME			
-----	-----			
LASTNAME				
-----	-----			
DEPT		YEAR	CGPA	
-----	-----	-----	-----	
SCHOLARSHIP				
-----				
106 madhu				
varma				

3. Retrieve the FirstName, LastName, and CGPA of all students.

```
SQL> select firstname,lastname,cgpa from student_2155;
```

FIRSTNAME	LASTNAME	CGPA
shailaja	kanukuntla	10
sannihitha	adeput	9
ramalaxmi	merugu	8
shiva	maduri	5
ramya	rama	10
madhu	varma	6

```
6 rows selected.

SQL> commit;

Commit complete.
```

4. Retrieve the students who are in the ECE department.

```
SQL> select * from student_2155
2  where dept='ECE';
```

SID	FIRSTNAME	LASTNAME	DEPT	YEAR	CGPA
102	sannihitha	adeput	ECE	2026	9

```
400000
```

5. Retrieve the Student\_ID of students who are in their final year (Year = 4) and have a CGPA above 8.0.

```
SQL> select sid from student_2155 where year=4 AND cgpa=8.0;

      SID
-----
      103
```

6. Update the CGPA of the student whose Student\_ID is 102 to 9.0.

```
SQL> update student_2155 set cgpa=9.0 where sid=102;

1 row updated.

SQL> select * from student_2155 where sid=102;

      SID FIRSTNAME
-----
      102 sannihitha
adepu
ECE
400000

      YEAR      CGPA
-----
      2026         9
```

7. Add a new column called Email and update the Email field for all students using the format [.@university.com](mailto:student_id@university.com).

```
SQL> Alter table student_2155 add email varchar2(100);

Table altered.
```

```

SQL> update student_2155 set email='shailu@university.com' where sid='101';
1 row updated.

SQL> update student_2155 set email='himaja@university.com' where sid='102';
1 row updated.

SQL> update student_2155 set email='ramalaxmi@university.com' where sid='103';
1 row updated.

SQL> update student_2155 set email='shiva@university.com' where sid='104';
1 row updated.

SQL> update student_2155 set email='ramya@university.com' where sid='105';
1 row updated.

SQL> select * from student_2155;

```

```

SQL> select sid, firstname, email from student_2155;

```

SID	FIRSTNAME	EMAIL
101	shailaja	shailu@university.com
102	sannihitha	himaja@university.com
103	ramalaxmi	ramalaxmi@university.com
104	shiva	shiva@university.com
105	ramya	ramya@university.com
106	madhu	

8. Delete the details of students who have a CGPA below 5.0.

```

SQL> delete from student_2155 where cgpa<5.0;
0 rows deleted.

```

9. Increment the Scholarship by 10% for students who have a CGPA above 9.0.

```
SQL> update student_2155 set scholarship=scholarship*0.1 where cgpa>9.0;
2 rows updated.
```

```
SQL> select sid,firstname,dept from student_2155 where cgpa>9.0;

      SID FIRSTNAME
-----
DEPT
-----
      101 shailaja
cse
      105 ramya
CIVIL
```

10. Delete the students who are in the CSE department and have a CGPA below 6.0.

```
SQL> delete from student_2155 where dept='CSE' AND cgpa<6.0;
0 rows deleted.

SQL>
```

### QUESTION-3

3.create a product table with the following fields : product\_ID ,ProductName,Category, Quantity, Price, Supplier, and Manufacture Date.

Queries:

1.Create the Schema/structure for the product table.

```
SQL> create table product2155(pid number(3),pname varchar2(50),category varchar2(50),quantity number(10),price number(10),supplier varchar2(50),manufacture number(20));
Table created.
```

2. Insert at least 6 records in to the product table.

```
SQL> insert into product2155 values(&pid,&pname,&category,&quantity,&price,&supplier,&manufacture);
Enter value for pid: 101
Enter value for pname: santoor
Enter value for category: cleansing
Enter value for quantity: 30gm
Enter value for price: 35
Enter value for supplier: sahasra
Enter value for manufacture: 20-oct-23
old 1: insert into product2155 values(&pid,&pname,&category,&quantity,&price,&supplier,&manufacture')
new 1: insert into product2155 values(101,'santoor','cleansing','30gm',35,'sahasra','20-oct-23')

1 row created.
```

```
SQL> /
Enter value for pid: 102
Enter value for pname: Air conditioner
Enter value for category: Electronics
Enter value for quantity: 6kgs
Enter value for price: 40000
Enter value for supplier: Bajaj
Enter value for manufacture: 26-jan-25
old 1: insert into product2155 values(&pid,&pname,&category,&quantity,&price,&supplier,&manufacture')
new 1: insert into product2155 values(102,'Air conditioner','Electronics','6kgs',40000,'Bajaj','26-jan-25')

1 row created.
```

```
SQL> /
Enter value for pid: 103
Enter value for pname: saree
Enter value for category: clothing
Enter value for quantity: 1
Enter value for price: 5000
Enter value for supplier: swamy
Enter value for manufacture: 23-feb-22
old 1: insert into product2155 values(&pid,&pname,&category,&quantity,&price,&supplier,&manufacture')
new 1: insert into product2155 values(103,'saree','clothing','1',5000,'swamy','23-feb-22')

1 row created.
```

```
SQL> /
Enter value for pid: 104
Enter value for pname: Dressing table
Enter value for category: Furniture
Enter value for quantity: 1
Enter value for price: 10000
Enter value for supplier: Govardhan
Enter value for manufacture: 4-mar-27
old 1: insert into product2155 values(&pid,&pname,&category,&quantity
,&price,&supplier,&manufacture')
new 1: insert into product2155 values(104,'Dressing table','Furniture','1'
,10000,'Govardhan','4-mar-27')
```

1 row created.

```
SQL> /
Enter value for pid: 201
Enter value for pname: Eyeliner
Enter value for category: Make-up
Enter value for quantity: 3
Enter value for price: 50
Enter value for supplier: Radhika
Enter value for manufacture: 12-jun-28
old 1: insert into product2155 values(&pid,&pname,&category,&quantity
,&price,&supplier,&manufacture')
new 1: insert into product2155 values(201,'Eyeliner','Make-up','3',50,'Rad
hika','12-jun-28')
```

1 row created.

```
SQL> /
Enter value for pid: 202
Enter value for pname: door
Enter value for category: Furniture
Enter value for quantity: 1
Enter value for price: 15000
Enter value for supplier: sloka
Enter value for manufacture: 17-jul-29
old 1: insert into product2155 values(&pid,&pname,&category,&quantity
,&price,&supplier,&manufacture')
new 1: insert into product2155 values(202,'door','Furniture','1',15000,'sl
oka','17-jul-29')
```

1 row created.



104 Dressing table		
Furniture	1	10000
PID PNAME		
CATEGORY	QUANTITY	PRICE
SUPPLIER	MANFACTUR	
Govardhan	04-MAR-27	
201 Eyeliner		
Make-up	3	50
Radhika	12-JUN-28	
202 door		
PID PNAME		
CATEGORY	QUANTITY	PRICE
SUPPLIER	MANFACTUR	
Furniture	1	15000
sloka	17-JUL-29	
203 lehenga		
clothing	3	4000
Tara	08-AUG-19	
7 rows selected.		

3.Retrieve the Product name and Price of all products.

SQL> select pname,price from product2155;	
PNAME	PRICE
santoor	35
Air conditioner	40000
saree	5000
Dressing table	10000
Eyeliner	50
door	15000
lehenga	4000
7 rows selected.	

4.Retrive the products that belong to the electronics category.

```
SQL> select * from product2155 where category='Electronics';
```

PID	PNAME	QUANTITY	PRICE
102	Air conditioner	6kgs	40000
Electronics	Bajaj	26-JAN-25	

5.Retrieve the Product\_ID of products whose category is Furniture and price is above 10,000.

```
SQL> select pid from product2155 where category='Furniture' AND price=10000;
```

PID
104

6.Update the Quantity of the product with product\_ID =201 to 50

```
SQL> update product2155 set pid=50 where pid=201;
```

1 row updated.

```
SQL> select * from product2155 where pid=50;
```

PID	PNAME	QUANTITY	PRICE
50	Eyeliner	3	50
Make-up	Radhika	12-JUN-28	

7.Add a new column called discount and set the discount for all products in the clothing category to 15%

```
SQL> update product2155 set discount=price*0.15 where category='clothing';
2 rows updated.

SQL> select category,discount from product2155;
```

CATEGORY	DISCOUNT
cleansing	
Electronics	
clothing	750
Furniture	
Make-up	
Furniture	
clothing	600

```
7 rows selected.
```

After removing the discounted price from original price

```
SQL> alter table product2155
2 add totamount number(8);

Table altered.

SQL> update product2155 set totamount=price-discount where category='clothing';
2 rows updated.

SQL> select category,totamount from product2155;
```

CATEGORY	TOTAMOUNT
cleansing	
Electronics	
clothing	4250
Furniture	
Make-up	
Furniture	
clothing	3400

```
7 rows selected.

SQL>
```

8.Delete the products that were manufactured before 2020-01-01.

```
SQL> DELETE from product2155 where manufacture<'01-jan-2020';
1 row deleted.
```

```
SQL> select pid,pname,manufacture from product2155;
```

PID	PNAME	MANFACTUR
101	santoor	20-OCT-23
102	Air conditioner	26-JAN-25
103	saree	23-FEB-22
104	Dressing table	04-MAR-27
50	Eyelineer	12-JUN-28
202	door	17-JUL-29

```
6 rows selected.
```

9.Increment the price by 8% for the products in the electronics category.

```
SQL> update product2155 set price=price+(price*0.08) where category='Electronics';
```

```
1 row updated.
```

```
SQL> select category,price from product2155;
```

CATEGORY	PRICE
cleansing	35
Electronics	43200
clothing	5000
Furniture	10000
Make-up	50
Furniture	15000

```
6 rows selected.
```

10.Delete the products that have a Quantity below 10 and price below 500.

```
SQL> DELETE from product2155 where quantity<10 AND totalamount<500;
1 row deleted.

SQL> select pid from product2155;

      PID
-----
      101
      102
      103
      104
       50
      202

6 rows selected.
```

#### QUESTION-4

Create and Orders table with the following fields:

Order\_ID, CustomerName, ProductName, OrderDate, Quantity, PricePer unit, and Status.

#### Queries:

1. Create schema/structure for the orders table.

```
SQL> create table order2155(oid number(3),cname varchar2(50),pname varchar2(
50),odate Date,quantity number(10),priceunit number(20),status varchar2(50))
;

Table created.
```

2. Insert at least 7 records in to the orders table.

```
SQL> insert into order2155 values(&oid,&cname,&pname,&odate,&quantity,
'&priceunit','&status');
Enter value for oid: 102
Enter value for cname: shailaja
Enter value for pname: books
Enter value for odate: 02-feb-06
Enter value for quantity: 3
Enter value for priceunit: 35
Enter value for status: cancelled
old 1: insert into order2155 values(&oid,&cname,&pname,&odate,&quantity,
'&priceunit','&status')
new 1: insert into order2155 values(102,'shailaja','books','02-feb-06',3,'
35','cancelled')
```

1 row created.

```
SQL> /
Enter value for oid: 103
Enter value for cname: himaja
Enter value for pname: flower
Enter value for odate: 03-mar-07
Enter value for quantity: 5
Enter value for priceunit: 77
Enter value for status: pending
old 1: insert into order2155 values(&oid,&cname,&pname,&odate,&quantity,
'&priceunit','&status')
new 1: insert into order2155 values(103,'himaja','flower','03-mar-07',5,'7
7','pending')
```

1 row created.

```
SQL> /
Enter value for oid: 301
Enter value for cname: rama
Enter value for pname: pen
Enter value for odate: 04-apr-08
Enter value for quantity: 6
Enter value for priceunit: 99
Enter value for status: pending
old 1: insert into order2155 values(&oid,&cname,&pname,&odate,&quantity,
'&priceunit','&status')
new 1: insert into order2155 values(301,'rama','pen','04-apr-08',6,'99','p
ending')
```

1 row created.

```
SQL> /
Enter value for oid: 104
Enter value for cname: charan
Enter value for pname: kajal
Enter value for odate: 05-may-25
Enter value for quantity: 8
Enter value for priceunit: 100
Enter value for status: cancelled
old 1: insert into order2155 values(&oid,&cname,&pname,&odate,&quantity,&priceunit,&status')
new 1: insert into order2155 values(104,'charan','kajal','05-may-25',8,'100','cancelled')
```

1 row created.

```
SQL> /
Enter value for oid: 105
Enter value for cname: swamy
Enter value for pname: laptop
Enter value for odate: 06-jun-26
Enter value for quantity: 10
Enter value for priceunit: 300
Enter value for status: completed
old 1: insert into order2155 values(&oid,&cname,&pname,&odate,&quantity,&priceunit,&status')
new 1: insert into order2155 values(105,'swamy','laptop','06-jun-26',10,'300','completed')
```

1 row created.

```
SQL> /
Enter value for oid: 302
Enter value for cname: raghu
Enter value for pname: speaker
Enter value for odate: 07-jul-27
Enter value for quantity: 3
Enter value for priceunit: 400
Enter value for status: completed
old 1: insert into order2155 values(&oid,&cname,&pname,&odate,&quantity,&priceunit,&status')
new 1: insert into order2155 values(302,'raghu','speaker','07-jul-27',3,'400','completed')
```

1 row created.

3.Retrieve the customer Name ,Product Name ,and Quantity of all orders.

```
SQL> select cname,pname,quantity from order2155;
```

CNAME		
-----		
PNAME		QUANTITY
-----		-----
shiva		
santoor		4
shailaja		
books		3
himaja		
flower		5

CNAME		
-----		
PNAME		QUANTITY
-----		-----
rama		
pen		6
charan		
kajal		8
swamy		
laptop		10

CNAME		
-----		
PNAME		QUANTITY
-----		-----
raghu		
speaker		3

```
7 rows selected.
```

4.Retrieve the orders placed after 2023-01-01.

```
SQL> select oid,pname from order2155 where odate> '01-jan-23';
```

OID	PNAME
-----	-----
104	kajal
105	laptop
302	speaker



5. Retrieve the order\_ID and customer Name for orders where the status is pending.

```
SQL> select oid,cname from order2155 where status='pending';
```

OID	CNAME
1	shiva
103	himaja
301	rama

6.update the status to completed for the order with order\_ID=301.

```
SQL> update order2155 set status='completed' where oid=301;
```

1 row updated.

```
SQL> select oid,status from order2155;
```

OID	STATUS
1	pending
102	cancelled
103	pending
301	completed
104	cancelled
105	completed
302	completed

7 rows selected.

7.Add a new column called TotalAmount and calculate it as Quantity\*priceunit for all rows.

```
SQL> select oid,priceunit,TotalAmount from order2155;
```

OID	PRICEUNIT	TOTALAMOUNT
1	40	160
102	35	105
103	77	385
301	99	594
104	100	800
105	300	3000
302	400	1200

7 rows selected.

8.Delete orders where the quantity is less than 5.

```
SQL> DELETE from order2155 where quantity<5;
```

3 rows deleted.

```
SQL> select oid,pname,quantity from order2155;
```

OID	PNAME	QUANTITY
103	flower	5
301	pen	6
104	kajal	8
105	laptop	10

9. Increase the price unit by 10% for orders where the product name is laptop

```
SQL> update order2155 set priceunit=priceunit+(priceunit*0.1) where pname='laptop';
```

1 row updated.

```
SQL> select pname,priceunit from order2155;
```

PNAME	PRICEUNIT
flower	77
pen	99
kajal	100
laptop	330

```
SQL>
```

10. Delete the orders where the status is Cancelled.

```
SQL> DELETE from order2155 where status='cancelled';
```

```
1 row deleted.
```

```
SQL> select oid,pname,cname,status from order2155;
```

OID	PNAME	CNAME	STATUS
103	flower	himaja	pending
301	pen	rama	completed
105	laptop	swamy	completed

## QUESTION-5

5.create Library table with the following fields:

Book\_ID, Title, Author, Genre, Published Year, Copies Available, and price.

## Queries:

1.create the schema/structure for the library table.

```
SQL> create table library2155(bid number(3),title varchar2(50),author varchar2(50),genre varchar2(50), publishedyear number(10),availcopies number(10),price number(10));
```

Table created.

2.Insert at least 8 records in to library table.

```
SQL> insert into library2155 values(&bid,'&title','&author','&genre',&publishedyear,&availcopies,&price);
Enter value for bid: 401
Enter value for title: DBMS
Enter value for author: EF.codd
Enter value for genre: engineering
Enter value for publishedyear: 1990
Enter value for availcopies: 3
Enter value for price: 100
old 1: insert into library2155 values(&bid,'&title','&author','&genre',&publishedyear,&availcopies,&price)
new 1: insert into library2155 values(401,'DBMS','EF.codd','engineering',1990,3,100)
```

1 row created.

```
SQL> /
Enter value for bid: 402
Enter value for title: nervous system
Enter value for author: john
Enter value for genre: biology
Enter value for publishedyear: 1888
Enter value for availcopies: 13
Enter value for price: 200
old 1: insert into library2155 values(&bid,'&title','&author','&genre',&publishedyear,&availcopies,&price)
new 1: insert into library2155 values(402,'nervous system','john','biology',1888,13,200)
```

1 row created.

```

SQL> /
Enter value for bid: 403
Enter value for title: avatar
Enter value for author: michael
Enter value for genre: fiction
Enter value for publishedyear: 2020
Enter value for availcopies: 8
Enter value for price: 500
old 1: insert into library2155 values(&bid,&title','&author','&genre','&pu
blishedyear,&availcopies,&price)
new 1: insert into library2155 values(403,'avatar','michael','fiction',202
0,8,500)

1 row created.

SQL> /
Enter value for bid: 404
Enter value for title: vettiayan
Enter value for author: atlee
Enter value for genre: action
Enter value for publishedyear: 2023
Enter value for availcopies: 5
Enter value for price: 600
old 1: insert into library2155 values(&bid,&title','&author','&genre','&pu
blishedyear,&availcopies,&price)
new 1: insert into library2155 values(404,'vettiayan','atlee','action',202
3,5,600)

1 row created.

```

```

SQL> /
Enter value for bid: 405
Enter value for title: the plants
Enter value for author: thomas
Enter value for genre: science
Enter value for publishedyear: 1994
Enter value for availcopies: 16
Enter value for price: 700
old 1: insert into library2155 values(&bid,&title','&author','&genre','&pu
blishedyear,&availcopies,&price)
new 1: insert into library2155 values(405,'the plants','thomas','science',
1994,16,700)

1 row created.

SQL> /
Enter value for bid: 406
Enter value for title: love bird
Enter value for author: renuk
Enter value for genre: love
Enter value for publishedyear: 2014
Enter value for availcopies: 0
Enter value for price: 88
old 1: insert into library2155 values(&bid,&title','&author','&genre','&pu
blishedyear,&availcopies,&price)
new 1: insert into library2155 values(406,'love bird','renuk','love',2014,
0,88)

1 row created.

```

```

SQL> /
Enter value for bid: 407
Enter value for title: sakranthi
Enter value for author: raju
Enter value for genre: family drama
Enter value for publishedyear: 1885
Enter value for availcopies: 2
Enter value for price: 100
old 1: insert into library2155 values(&bid,&title,&author,&genre,&pu
blishedyear,&availcopies,&price)
new 1: insert into library2155 values(407,'sakranthi','raju','family drama
',1885,2,100)

1 row created.

SQL> /
Enter value for bid: 408
Enter value for title: pushpa
Enter value for author: sukumar
Enter value for genre: action
Enter value for publishedyear: 2025
Enter value for availcopies: 100
Enter value for price: 1000
old 1: insert into library2155 values(&bid,&title,&author,&genre,&pu
blishedyear,&availcopies,&price)
new 1: insert into library2155 values(408,'pushpa','sukumar','action',2025
,100,1000)

1 row created.

```

3.Retrieve the Title, Author, and price of all books.

```
SQL> select title,author,price from library2155;
```

```
TITLE
```

```
AUTHOR
```

```
PRICE
```

```
DBMS
```

```
EF.codd
```

```
100
```

```
nervous system
```

```
john
```

```
200
```

```
avatar
```

```
michael
```

```
500
```

```
TITLE
```

```
AUTHOR
```

```
PRICE
```

```
vettiayan
```

```
atlee
```

```
600
```

```
the plants
```

```
thomas
```

```
700
```

```
love bird
```

```
renuk
```

```
88
```

```
TITLE
```

```
AUTHOR
```

```
PRICE
```

```
sakranthi
```

```
raju
```

```
100
```

```
pushpa
```

```
sukumar
```

```
1000
```

4.Retrieve the books in the Fiction genre.

```
SQL> select bid,genre from library2155 where genre='fiction';
```

```
BID  GENRE
```

```
403  fiction
```

5.Retrieve the Book\_ID of books published before the year 2000.

```
SQL> select bid from library2155 where publishedyear<2000;
```

```
      BID
-----
      401
      402
      405
      407
```

6.Update the CopiesAvailable to 10 for the book with Book\_ID=401.

```
SQL> update library2155 set availcopies=10 where bid=401;
```

```
1 row updated.
```

```
SQL> select bid,availcopies from library2155;
```

```
      BID AVAILCOPIES
-----
      401          10
      402          13
      403           8
      404           5
      405          16
      406           0
      407           2
      408         100
```

```
8 rows selected.
```

7.Add a new column called Discount and set a 20% discount for books in the science genre.



```
SQL> alter table library2155
  2  add Discount number(10);

Table altered.

SQL> update library2155 set discount= price-(price*0.02) where genre='science';

1 row updated.

SQL> select bid,genre,discount from library2155;
```

BID	GENRE	DISCOUNT
401	engineering	
402	biology	
403	fiction	
404	action	
405	science	686
406	love	
407	family drama	
408	action	

```
8 rows selected.
```

8. Delete the books with copiesAvailable equal to 0.

```
SQL> DELETE from library2155 where availcopies=0;

1 row deleted.

SQL> select bid,availcopies from library2155;
```

BID	AVAILCOPIES
401	10
402	13
403	8
404	5
405	16
407	2
408	100

```
7 rows selected.
```

9. Increment the price of books published after 2015 by 5%.

```
SQL> update library2155 set price=price+(price*0.05) where publishedyear>2015;
```

```
3 rows updated.
```

```
SQL> select bid,price,publishedyear from library2155;
```

BID	PRICE	PUBLISHEDYEAR
401	100	1990
402	200	1888
403	525	2020
404	630	2023
405	700	1994
407	100	1885
408	1050	2025

```
7 rows selected.
```

10.Delete the books with Price below 300 and published before the year 1990.

```
SQL> DELETE from library2155 where price<300 AND publishedyear<1990;
```

```
2 rows deleted.
```

```
SQL> select bid,price,publishedyear from library2155;
```

BID	PRICE	PUBLISHEDYEAR
401	100	1990
403	525	2020
404	630	2023
405	700	1994
408	1050	2025

```
SQL>
```

