

## Assignment - 1

**Q-1 Create following tables and perform queries:**

| Order    |
|----------|
| ORD_ID   |
| ORD_DATE |
| CUST_ID  |
| TOT_AMT  |
| DUE      |

| Customer   |
|------------|
| CUST_ID    |
| CUST_FNAME |
| CUST_LNAME |
| CUST_CITY  |
| CUST_DOB   |

```
CREATE DATABASE ORDER_Customer_Assignment;
USE RDORDER_Customer_Assignment;
CREATE TABLE customer(
CUST_ID INT PRIMARY KEY,
CUST_FNAME VARCHAR(40),
CUST_LNAME VARCHAR(40),
CUST_CITY VARCHAR(30),
CUST_DOB DATE
);
CREATE TABLE ord(
ORD_ID INT PRIMARY KEY,
ORD_DATE DATE,
CUST_ID INT,
TOT_AMT INT,
DUE INT,
FOREIGN KEY(CUST_ID) references customer(CUST_ID)
);
```

```
INSERT INTO customer
(CUST_ID, CUST_FNAME, CUST_LNAME, CUST_CITY, CUST_DOB)
VALUES
(101, 'Payal' , 'Patel' , 'Ahmedabad' , '1999-02-17'),
(102, 'Mina' , 'Kumari' , 'Bhuj' , '1999-04-05'),
(103, 'Viru' , 'Shah' , 'Surat' , '1999-06-07'),
(104, 'Ketan' , 'Shah' , 'Valsad' , '2004-06-22'),
(105, 'Manali' , 'Shah' , 'Vadodra' , '2015-07-03'),
(106, 'Priyanka' , 'Rathod' , 'Gnagar' , '2001-07-18'),
(107, 'Agn' , 'Horavi' , 'Mehsana' , '1964-08-02'),
(108, 'Divy' , 'Patel' , 'Junaghad' , '1996-09-02'),
(109, 'NIDHI' , 'Soni' , 'Patan' , '2000-10-22'),
(110, 'Kisha' , 'Varma' , 'Jamnagar' , '2002-11-02');
SELECT *FROM customer;
```

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB   |
|---------|------------|------------|-----------|------------|
| 101     | Payal      | Patel      | Ahmedabad | 17-02-1999 |
| 102     | Mina       | Kumari     | Bhuj      | 05-04-     |

|     |          |        |          |            |
|-----|----------|--------|----------|------------|
|     |          |        |          | 1999       |
| 103 | Viru     | Shah   | Surat    | 07-06-1999 |
| 104 | Ketan    | Shah   | Valsad   | 22-06-2004 |
| 105 | Manali   | Shah   | Vadodra  | 03-07-2005 |
| 106 | Priyanka | Rathod | Gnagar   | 18-07-2001 |
| 107 | Agna     | Horavi | Mehsana  | 02-08-1964 |
| 108 | Divy     | Patel  | Junaghad | 02-09-1996 |
| 109 | NIDHI    | Soni   | Patan    | 22-10-2000 |
| 110 | Kisha    | Varma  | Jamnagar | 02-11-2002 |

```

INSERT INTO ord
(ORD_ID, ORD_DATE, CUST_ID, TOT_AMT, DUE)
VALUES
(01, '2024-01-21' , 101 , 17000 , 0),
(02, '2023-03-14' , 102 , 4000 , 100),
(03, '2022-05-06' , 103 , 15000 , 0),
(04, '2023-06-11' , 104 , 45000 , 0),
(05, '2024-06-28' , 105 , 55000 , 3000),
(06, '2013-07-13' , 106 , 6000 , 200),
(07, '2023-07-23' , 107 , 4000 , 0),
(08, '2024-08-28' , 108 , 7000 , 0),
(09, '2013-09-20' , 109 , 8900 , 0),
(10, '2024-10-27' , 110 , 145000 , 20000);
SELECT *FROM ord;

```

| ORD_ID | ORD_DATE   | CUST_ID | TOT_AMT | DUE  |
|--------|------------|---------|---------|------|
| 1      | 21-01-2024 | 101     | 17000   | 0    |
| 2      | 14-03-2023 | 102     | 4000    | 100  |
| 3      | 06-05-2022 | 103     | 15000   | 0    |
| 4      | 11-06-2023 | 104     | 45000   | 0    |
| 5      | 28-06-2024 | 105     | 55000   | 3000 |
| 6      | 13-07-2023 | 106     | 6000    | 200  |
| 7      | 23-07-2023 | 107     | 4000    | 0    |

|    |            |     |        |       |
|----|------------|-----|--------|-------|
| 8  | 28-08-2024 | 108 | 7000   | 0     |
| 9  | 20-09-2023 | 109 | 8900   | 0     |
| 10 | 27-10-2024 | 110 | 145000 | 20000 |

**Queries:****1) Display all customers whose last name is SHAH.**

```
SELECT *FROM customer WHERE CUST_LNAME = 'SHAH';
```

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB   |
|---------|------------|------------|-----------|------------|
| 103     | Viru       | Shah       | Surat     | 07-06-1999 |
| 104     | Ketan      | Shah       | Valsad    | 22-06-2004 |
| 105     | Manali     | Shah       | Vadodra   | 03-07-2005 |

**2) Display order details for customers whose name starts with P.**

```
SELECT *  
FROM ord  
JOIN customer  
ON ord.CUST_ID = customer.CUST_ID  
WHERE customer.Cust_FNAME LIKE 'P%';
```

| ORD_ID | ORD_DATE   | CUST_ID | TOT_AMT | DUE | CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB   |
|--------|------------|---------|---------|-----|---------|------------|------------|-----------|------------|
| 1      | 21-01-2024 | 101     | 17000   | 0   | 101     | Payal      | Patel      | Ahmedabad | 17-02-1999 |
| 6      | 13-07-2023 | 106     | 6000    | 200 | 106     | Priyanka   | Rathod     | Gnagar    | 18-07-2001 |

**3) Display all customers with their placed orders who stay in city SURAT.**

```
SELECT *  
FROM customer  
JOIN ord  
ON customer.CUST_ID = ord.CUST_ID
```

WHERE customer.CUST\_CITY = 'SURAT';

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB | ORD_ID | ORD_DATE | CUST_ID | TOT_AMT | DUE |
|---------|------------|------------|-----------|----------|--------|----------|---------|---------|-----|
| 103     | Viru       | Shah       | Surat     | #####    | 3      | #####    | 103     | 15000   | 0   |

**4) Print all customers who have placed order more than 50000 rs.**

SELECT \*

FROM customer

Join ord

ON customer.CUST\_ID = ord.CUST\_ID

WHERE ord.TOT\_AMT > 50000;

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB   | ORD_ID | ORD_DATE   | CUST_ID | TOT_AMT | DUE   |
|---------|------------|------------|-----------|------------|--------|------------|---------|---------|-------|
| 105     | Manali     | Shah       | Vadodra   | 03-07-2005 | 5      | 28-06-2024 | 105     | 55000   | 3000  |
| 110     | Kisha      | Varma      | Jamnagar  | 02-11-2002 | 10     | 27-10-2024 | 110     | 145000  | 20000 |

**5) Find all orders which are left with payment due.**

SELECT \* FROM ord WHERE DUE>0;

| ORD_ID | ORD_DATE   | CUST_ID | TOT_AMT | DUE   |
|--------|------------|---------|---------|-------|
| 2      | 14-03-2023 | 102     | 4000    | 100   |
| 5      | 28-06-2024 | 105     | 55000   | 3000  |
| 6      | 13-07-2023 | 106     | 6000    | 200   |
| 10     | 27-10-2024 | 110     | 145000  | 20000 |

**6) List all customers who have paid their dues.**

SELECT \*

FROM customer

JOIN ord

ON customer.CUST\_ID = ord.CUST\_ID

WHERE ord.DUE = 0;

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB   | ORD_ID | ORD_DATE   | CUST_ID | TOT_AMT | DUE |
|---------|------------|------------|-----------|------------|--------|------------|---------|---------|-----|
| 101     | Payal      | Patel      | Ahmedabad | 17-02-1999 | 1      | 21-01-2024 | 101     | 17000   | 0   |
| 103     | Viru       | Shah       | Sihi      | 07-06-1999 | 3      | 06-05-2022 | 103     | 15000   | 0   |
| 104     | Ketan      | Shah       | Valsad    | 22-06-2004 | 4      | 11-06-2023 | 104     | 45000   | 0   |
| 107     | Agna       | Horavi     | Mehsana   | 02-08-1964 | 7      | 23-07-2023 | 107     | 4000    | 0   |
| 108     | Divy       | Patel      | Junaghad  | 02-09-1996 | 8      | 28-08-2024 | 108     | 7000    | 0   |
| 109     | NIDHI      | Soni       | Patan     | 22-10-2000 | 9      | 20-09-2023 | 109     | 8900    | 0   |

**7) Display all orders which are placed by the customers who stay in AHMEDABAD.**

```
SELECT *
FROM ord
JOIN customer
ON ord.CUST_ID = customer.CUST_ID
WHERE customer.CUST_CITY = 'AHMEDABAD';
```

| ORD_ID | ORD_DATE   | CUST_ID | TOT_AMT | DUE | CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB   |
|--------|------------|---------|---------|-----|---------|------------|------------|-----------|------------|
| 1      | 21-01-2024 | 101     | 17000   | 0   | 101     | Payal      | Patel      | Ahmedabad | 17-02-1999 |

**8) List out all customer whose order amount is due and live in BARODA.**

```
SELECT *
FROM customer
JOIN ord
ON customer.CUST_ID = ord.CUST_ID
WHERE ord.DUE > 0 AND customer.CUST_CITY = 'BARODA';
```

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB   | ORD_ID | ORD_DATE   | CUST_ID | TOT_AMT | DUE |
|---------|------------|------------|-----------|------------|--------|------------|---------|---------|-----|
| 105     | Manali     | Shah       | Vadodra   | 03-07-2005 | 5      | 28-06-2024 | 105     | 55000   | 300 |

**9) Display all customers who have ordered between 5000 and 10000 rs.**

```

SELECT *
FROM customer
JOIN ord
ON customer.CUST_ID = ord.CUST_ID
WHERE ord.TOT_AMT BETWEEN 5000 AND 10000;

```

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB   | ORD_ID | ORD_DATE   | CUST_ID | TOT_AMT | DUE |
|---------|------------|------------|-----------|------------|--------|------------|---------|---------|-----|
| 106     | Priyanka   | Rathod     | Gnagar    | 18-07-2001 | 6      | 13-07-2023 | 106     | 6000    | 200 |
| 108     | Divy       | Patel      | Junaghad  | 02-09-1996 | 8      | 28-08-2024 | 108     | 7000    | 0   |
| 109     | NIDHI      | Soni       | Patan     | 22-10-2000 | 9      | 20-09-2023 | 109     | 8900    | 0   |

**10) List all customers who haven't placed order less than 1 lakh rs.**

```

SELECT *
FROM customer
WHERE CUST_ID NOT IN (SELECT CUST_ID FROM ord WHERE TOT_AMT < 100000);

```

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB   |
|---------|------------|------------|-----------|------------|
| 110     | Kisha      | Varma      | Jamnagar  | 02-11-2002 |

**Date Manipulations:****11) Display all customers who have born before year 1970.**

```

SELECT * FROM customer WHERE YEAR(CUST_DOB) < 1970;

```

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB   |
|---------|------------|------------|-----------|------------|
| 107     | Agna       | Horavi     | Mehsana   | 02-08-1964 |

**12) List out all customers who have birthday in this month.**

```

SELECT * FROM customer WHERE MONTH(CUST_DOB) = MONTH(CURRENT_DATE);

```

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB |
|---------|------------|------------|-----------|----------|
|---------|------------|------------|-----------|----------|

|     |       |       |          |            |
|-----|-------|-------|----------|------------|
| 110 | Kisha | Varma | Jamnagar | 02-11-2002 |
|-----|-------|-------|----------|------------|

**13) Display all those orders which are placed in 2015 with date format DD/Month/YYYY.**

```
SELECT *, DATE_FORMAT(ORD_DATE,'%D/%M/%Y') AS FormattedDate
FROM ord
WHERE YEAR(ORD_DATE)=2015;
```

| ORD_ID | FormattedDate |
|--------|---------------|
| 3      | 6th/May/2015  |

**14) If credit days are 60 days then find out the due date for each order.**

```
SELECT *, DATE_ADD(ORD_DATE,INTERVAL 60 DAY) AS DueDate
FROM ord;
```

| ORD_ID | ORD_DATE   | CUST_ID | TOT_AMT | DUE   | DueDate    |
|--------|------------|---------|---------|-------|------------|
| 1      | 21-01-2024 | 101     | 17000   | 0     | 21-03-2024 |
| 2      | 14-03-2023 | 102     | 4000    | 100   | 13-05-2023 |
| 3      | 06-05-2022 | 103     | 15000   | 0     | 05-07-2022 |
| 4      | 11-06-2023 | 104     | 45000   | 0     | 10-08-2023 |
| 5      | 28-06-2024 | 105     | 55000   | 3000  | 27-08-2024 |
| 6      | 13-07-2023 | 106     | 6000    | 200   | 11-09-2023 |
| 7      | 23-07-2023 | 107     | 4000    | 0     | 21-09-2023 |
| 8      | 28-08-2024 | 108     | 7000    | 0     | 27-10-2024 |
| 9      | 20-09-2023 | 109     | 8900    | 0     | 19-11-2023 |
| 10     | 27-10-2024 | 110     | 145000  | 20000 | 26-12-2024 |

**15) Display the customer with their respective age.**

```
SELECT *,TIMESTAMPDIFF(YEAR, CUST_DOB, CURRENT_DATE) AS Age
FROM customer;
```

| CUST_ID | CUST_FNAME | CUST_LNAME | CUST_CITY | CUST_DOB | Age |
|---------|------------|------------|-----------|----------|-----|
| 101     | Payal      | Patel      | Ahmedabad | 17-02-   | 25  |

|     |          |        |          |            |    |
|-----|----------|--------|----------|------------|----|
|     |          |        |          | 1999       |    |
| 102 | Mina     | Kumari | Bhuj     | 05-04-1999 | 25 |
| 103 | Viru     | Shah   | Sihi     | 07-06-1999 | 25 |
| 104 | Ketan    | Shah   | Valsad   | 22-06-2004 | 20 |
| 105 | Manali   | Shah   | Vadodra  | 03-07-2005 | 19 |
| 106 | Priyanka | Rathod | Gnagar   | 18-07-2001 | 23 |
| 107 | Agna     | Horavi | Mehsana  | 02-08-1964 | 60 |
| 108 | Divy     | Patel  | Junaghad | 02-09-1996 | 28 |
| 109 | NIDHI    | Soni   | Patan    | 22-10-2000 | 24 |
| 110 | Kisha    | Varma  | Jamnagar | 02-11-2002 | 22 |

**Clauses:****16) Find out the total customers from JAMNAGAR.**

```
SELECT CUST_CITY, COUNT(*) AS TotalCustomers
FROM customer
WHERE CUST_CITY='JAMNAGAR';
```

| CUST_CITY | TotalCustomers |
|-----------|----------------|
| Jamnagar  | 1              |

**17) Find out the minimum order given by customer read by user.**

```
SELECT MIN(TOT_AMT) AS MinOrder
FROM ord;
```

| MinOrder |
|----------|
| 4000     |

**18) Find out the maximum number of orders given by any customer.**

```
SELECT CUST_ID, COUNT(*) AS NumberOfOrders
FROM Ord
```



GROUP BY CUST\_ID

ORDER BY NumberOfOrders;

| CUST_ID | NumberOfOrders |
|---------|----------------|
| 101     | 1              |
| 102     | 1              |
| 103     | 1              |
| 104     | 1              |
| 105     | 1              |
| 106     | 1              |
| 107     | 1              |
| 108     | 1              |
| 109     | 1              |
| 110     | 1              |

**19) Calculate the average amount for each customer.**

SELECT CUST\_ID, avg(TOT\_AMT) AS AverageAmount

FROM ord

GROUP BY CUST\_ID;

| CUST_ID | AverageAmount |
|---------|---------------|
| 101     | 17000         |
| 102     | 4000          |
| 103     | 15000         |
| 104     | 45000         |
| 105     | 55000         |
| 106     | 6000          |
| 107     | 4000          |
| 108     | 7000          |
| 109     | 8900          |
| 110     | 145000        |

**20) Find out the total number of orders placed in year 2013.**

SELECT COUNT(\*) AS OrdersIn2013

FROM ord

WHERE YEAR(ORD\_DATE) = 2023;

| OrdersIn2013 |
|--------------|
| 0            |

## Assignment -2

**Q1. Create tables STUDENT and COURSE with given column names and data types using mentioned size and constraints. Write down the SQL statements to create table and insert records. Display results for following queries:**

|                               |
|-------------------------------|
| <b>STUDENT</b>                |
| stud_id int(5) PK,            |
| fname varchar (15) NOT NULL,  |
| lname varchar (15),           |
| city varchar (15),            |
| crs_id int(5) FK              |
| <b>COURSE</b>                 |
| crs_id int(5) PK,             |
| crs_nm varchar (15) NOT NULL, |
| duration int(2) NOT NULL      |

```
create table courses(  
  crs_id int(5) primary key,  
  crs_nm varchar(15) NOT NULL,  
  duration int(2) NOT NULL);  
  
desc courses;  
  
create table students(stud_id int(5) primary key,  
  fname varchar(15) NOT NULL,  
  lname varchar(15),  
  city varchar(15),  
  crs_id int(5),
```

foreign key (crs\_id) references courses(crs\_id));

desc students;

**1) Display detail of students from city SURAT.**

| stud_id | fname   | lname  | city  | crs_id |
|---------|---------|--------|-------|--------|
| 1       | Parth   | Patel  | SURAT | 101    |
| 9       | Dhruvil | Parmar | Surat | 103    |

**2) List down all courses and their duration.**

| crs_nm | duration |
|--------|----------|
| PGDCSA | 12       |
| MTech  | 24       |
| BCA    | 36       |
| MCA    | 24       |
| Msc    | 24       |

**3) Display details of those students whose first name starts with 'P'.**

| stud_id | fname | lname | city  | crs_id |
|---------|-------|-------|-------|--------|
| 1       | Parth | Patel | SURAT | 101    |
| 3       | Priya | Patil | Pune  | 103    |

**4) Display list of students who opted for DCA course.**

| fname   | lname  |
|---------|--------|
| Priya   | Patil  |
| Dhruvil | Parmar |

**5) Display full name of students and city they belong to.**

| full_name      | city      |
|----------------|-----------|
| Parth Patel    | SURAT     |
| Rahi Mnhotra   | Mumbai    |
| Priya Patil    | Pune      |
| Mohan Jigo     | Delhi     |
| Neha Saho      | Jamnagar  |
| Diva Matiwala  | Ahmedabad |
| Devi Patel     | Ahmedabad |
| Sikha Shah     | Rajkot    |
| Dhruvil Parmar | Surat     |

**6) Display courses having duration more than 10 months.**

| crs_nm | duration |
|--------|----------|
| PGDCSA | 12       |
| MTech  | 24       |
| BCA    | 36       |
| MCA    | 24       |
| Msc    | 24       |

**7) Display student id as ROLLNO along with other details.**

| rollno | fname   | lname    | city      | crs_id |
|--------|---------|----------|-----------|--------|
| 1      | Parth   | Patel    | SURAT     | 101    |
| 2      | Rahi    | Mnhotra  | Mumbai    | 102    |
| 3      | Priya   | Patil    | Pune      | 103    |
| 4      | Mohan   | Jigo     | Delhi     | 104    |
| 5      | Neha    | Saho     | Jamnagar  | 102    |
| 6      | Diva    | Matiwala | Ahmedabad | 105    |
| 7      | Devi    | Patel    | Ahmedabad | 105    |
| 8      | Sikha   | Shah     | Rajkot    | 101    |
| 9      | Dhruvil | Parmar   | Surat     | 103    |

**8) Display student name, course name and their city.**

| fname   | lname    | crs_nm | city      |
|---------|----------|--------|-----------|
| Parth   | Patel    | PGDCSA | SURAT     |
| Rahi    | Mnhotra  | MTech  | Mumbai    |
| Priya   | Patil    | BCA    | Pune      |
| Mohan   | Jigo     | MCA    | Delhi     |
| Neha    | Saho     | MTech  | Jamnagar  |
| Diva    | Matiwala | Msc    | Ahmedabad |
| Devi    | Patel    | Msc    | Ahmedabad |
| Sikha   | Shah     | PGDCSA | Rajkot    |
| Dhruvil | Parmar   | BCA    | Surat     |

**9) Display total number of students from course MTech.**

| total_students |
|----------------|
| 2              |

**10) Calculate student percentage and display as Result.**

**Q-2 Create table EMPLOYEE and DESIGNATION with given column names and data using mentioned size and constraints. Write down the SQL statements to create table and insert records. Display results for following queries:**

| EMPLOYEE                     |
|------------------------------|
| emp_id int(5) PK,            |
| ename varchar (25) NOT NULL, |
| dob date,                    |
| city varchar (12),           |
| designation int(2) FK,       |

| DESIGNATION                   |
|-------------------------------|
| desg_id int(5) PK,            |
| desg_nm varchar (15) NOT NULL |
| Basic_salary float(8,2)       |

```
create table designation(  
  desg_id int(5) primary key,  
  desg_nm varchar(15) not null,  
  basic_salary decimal(8,2));  
desc designation;  
create table employee(  
  emp_id int(5) primary key,  
  ename varchar(15) not null,  
  dob date,  
  city varchar(12),  
  designation int(5),  
  foreign key(designation) references designation(desg_id));  
desc employee;
```

**1) Display details of employee(s) from AHMEDABAD city.**

| emp_id | ename | dob        | city      | designation | Department |
|--------|-------|------------|-----------|-------------|------------|
| 101    | Aesha | 12-06-1990 | Ahmedabad | 1           | Management |
| 103    | Oesh  | 01-11-2000 | Ahmedabad | 3           | HR         |

**2) Display employee(s) name and their salary.**

| ename   | basic_salary |
|---------|--------------|
| Aesha   | 91000        |
| Parul   | 61000        |
| Oesh    | 59000        |
| Divya   | 73000        |
| Jignya  | 58000        |
| Diyam   | 61000        |
| Rushuta | 59000        |

**3) Add new columns DEPARTMENT to EMPLOYEE table to store department name.**

| Field             | Type               | Null       | Key | Default     | Extra |
|-------------------|--------------------|------------|-----|-------------|-------|
| emp_id            | int(5)             | NO         | PRI | NULL        |       |
| ename             | varchar(15)        | NO         |     | NULL        |       |
| dob               | date               | YES        |     | NULL        |       |
| city              | varchar(12)        | YES        |     | NULL        |       |
| designation       | int(5)             | YES        | MUL | NULL        |       |
| <b>Department</b> | <b>varchar(20)</b> | <b>YES</b> |     | <b>NULL</b> |       |

**4) Display employee detail along with newly added column Department data.**

| emp_id | ename   | dob        | city        | designation | Department |
|--------|---------|------------|-------------|-------------|------------|
| 101    | Aesha   | 12-06-1990 | Ahmedabad   | 1           | Management |
| 102    | Parul   | 10-01-1999 | Surat       | 2           | Analyst    |
| 103    | Oesh    | 01-11-2000 | Ahmedabad   | 3           | HR         |
| 104    | Divya   | 22-03-1997 | Delhi       | 4           | Developer  |
| 105    | Jignya  | 11-08-2003 | Pune        | 5           | Sales      |
| 106    | Diyam   | 04-01-2002 | Mumbai      | 2           | Analyst    |
| 107    | Rushuta | 21-01-     | Gandhinagar | 3           | HR         |

|  |  |      |  |  |  |
|--|--|------|--|--|--|
|  |  | 2001 |  |  |  |
|--|--|------|--|--|--|

**5) Display all designation data and its basic salary.**

| desg_id | desg_nm   | basic_salary |
|---------|-----------|--------------|
| 1       | Manager   | 91000        |
| 2       | Analyst   | 61000        |
| 3       | HR        | 59000        |
| 4       | Developer | 73000        |
| 5       | Sales     | 58000        |

**6) Display employee(s) name, age along with their designation.**

| ename   | age | desg_nm   |
|---------|-----|-----------|
| Aesha   | 34  | Manager   |
| Parul   | 25  | Analyst   |
| Oesh    | 24  | HR        |
| Divya   | 27  | Developer |
| Jignya  | 21  | Sales     |
| Diyam   | 22  | Analyst   |
| Rushuta | 23  | HR        |

**7) Display employees from HR department.**

| ename   |
|---------|
| Oesh    |
| Rushuta |

**8) Display only those employees whose salary is higher than 80000.**

| ename |
|-------|
| Aesha |

**9) Display Manager(s) from SALES department.**

| ename    |
|----------|
| Jaykumar |

**10) Display employee(s) name, designation and their Basic salary.**

| ename | desg_nm   | basic_salary |
|-------|-----------|--------------|
| Aesha | Manager   | 91000        |
| Parul | Analyst   | 61000        |
| Oesh  | HR        | 59000        |
| Divya | Developer | 73000        |

|          |         |       |
|----------|---------|-------|
| Jignya   | Sales   | 58000 |
| Diyam    | Analyst | 61000 |
| Rushuta  | HR      | 59000 |
| Jaykumar | Manager | 91000 |

**Q-3 Create tables ORDER and PRODUCT with given column names and data using mentioned size and constraints. Write down the SQL statements to create table and insert records. Display results for following queries:**

|                                  |
|----------------------------------|
| <b>ORDER</b>                     |
| Ord_id int(5) PK,                |
| Ord_dt Date,                     |
| Cust_nm varchar (15) NOT NULL,   |
| Cust_city varchar (15) NOT NULL, |
| prod_id int(5) FK,               |
| qty int(5,2)                     |
| <b>PRODUCT</b>                   |
| Prod_id int(5) PK,               |
| prod_nm varchar2 (15) NOT NULL,  |
| prod_rate float(7,2) NOT NULL    |

```
create table product (  
  prod_id int(5) primary key,  
  prod_nm varchar(15) not null,  
  prod_rate decimal(7,2) not null  
);  
  
desc product;  
  
CREATE TABLE ordertable (  
  ord_id INT(5) PRIMARY KEY,  
  ord_dt DATE,  
  cust_nm varchar(15) not null,
```



cust\_city varchar(15) not null,  
prod\_id int(5),  
qty decimal(5,2),  
foreign key (prod\_id) references product(prod\_id));  
desc ordertable;

**1) Display details of products having price more than 1000 rs.**

| prod_id | prod_nm  | prod_rate |
|---------|----------|-----------|
| 101     | Laptop   | 45000     |
| 103     | Keyboard | 1500      |
| 104     | Monitor  | 12000     |
| 105     | Printer  | 8500      |

**2) Display all customers and their city.**

| cust_nm  | cust_city |
|----------|-----------|
| Jaykumar | Mumbai    |
| Divyam   | Delhi     |
| Diyaben  | Bhavnagar |
| Priyanka | Mumbai    |
| Ovesh    | Bhavnagar |

**3) Display customer name, their city, product name and its quantity.**

| cust_nm  | cust_city | prod_nm  | qty |
|----------|-----------|----------|-----|
| Jaykumar | Mumbai    | Laptop   | 1   |
| Divyam   | Delhi     | Mouse    | 2   |
| Diyaben  | Bhavnagar | Keyboard | 3   |
| Priyanka | Mumbai    | Monitor  | 2   |
| Ovesh    | Bhavnagar | Printer  | 1   |

**4) Display Order date and amount under the each order.**

| ord_dt     | Amount |
|------------|--------|
| 01-11-2024 | 45000  |
| 02-11-2024 | 1000   |
| 03-11-2024 | 4500   |
| 04-11-2024 | 24000  |
| 05-11-     | 8500   |

|      |  |
|------|--|
| 2024 |  |
|------|--|

**5) Display customers from city BHAVNAGAR.**

| cust_nm | cust_nm |
|---------|---------|
| Diyaben | Diyaben |
| Ovesh   | Ovesh   |

**6) Display total number of customers from each city.**

| cust_city | Total_Customers |
|-----------|-----------------|
| Bhavnagar | 2               |
| Delhi     | 1               |
| Mumbai    | 2               |

**7) Calculate total amount of order for each customer.**

| cust_nm  | Total_Amount |
|----------|--------------|
| Divyam   | 1000         |
| Diyaben  | 4500         |
| Jaykumar | 45000        |
| Ovesh    | 8500         |
| Priyanka | 24000        |

**8) Display maximum sale in each of the month.**

| Order_Month | Max_Sale |
|-------------|----------|
| 11          | 45000    |

**9) Display customer name, product name, quantity and calculated amount.**

| cust_nm  | prod_nm  | qty | Amount |
|----------|----------|-----|--------|
| Jaykumar | Laptop   | 1   | 45000  |
| Divyam   | Mouse    | 2   | 1000   |
| Diyaben  | Keyboard | 3   | 4500   |
| Priyanka | Monitor  | 2   | 24000  |
| Ovesh    | Printer  | 1   | 8500   |

**10) Display Order id, date, customer name, product name, quantity purchased under the order and total amount.**

| ord_id | ord_dt     | cust_nm  | prod_nm | qty | Total_Amount |
|--------|------------|----------|---------|-----|--------------|
| 1      | 01-11-2024 | Jaykumar | Laptop  | 1   | 45000        |
| 2      | 02-11-     | Divyam   | Mouse   | 2   | 1000         |

|   |            |          |          |   |       |
|---|------------|----------|----------|---|-------|
|   | 2024       |          |          |   |       |
| 3 | 03-11-2024 | Diyaben  | Keyboard | 3 | 4500  |
| 4 | 04-11-2024 | Priyanka | Monitor  | 2 | 24000 |
| 5 | 05-11-2024 | Ovesh    | Printer  | 1 | 8500  |