

# Parul University

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Batch: 2028

Degree: B.Tech - CSE

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## PIET\_Oracle DBMS\_Course

### PIET\_Oracle DBMS\_Session 7\_COD\_Updated

Attempt : 1

Total Mark : 50

Marks Obtained : 50

### Section 1 : COD

#### 1. Problem Statement:

Sophia is managing sailor data and their associated boat bookings. She needs to retrieve sailor details based on their booking history and identify patterns in boat reservations.

Table Details:

Symbol refers to the primary key

Symbol refers to the Foreign key

NN refers to Not NULL

Sample Input Records:

You need to:

Display the sailor details whose boat is never booked. Display the sailor details whose boat is booked for 10th July, 98.

**Answer**

oracle.sql

```
SELECT S.SAILOR_NAME, S.AGE, S.RANK, S.CITY FROM SAILORS S JOIN BOATS  
B ON S.SAILOR_ID = B.SAILOR_ID WHERE B.BOOKINGS_DATE IS NULL;  
SELECT S.SAILOR_NAME, S.AGE, S.RANK, S.CITY FROM SAILORS S JOIN BOATS  
B ON S.SAILOR_ID = B.SAILOR_ID WHERE B.BOOKINGS_DATE =  
TO_DATE('1998-07-10', 'YYYY-MM-DD');
```

**Status :** Correct

**Marks :** 10/10

## 2. Problem Statement:

Sophia is managing sailor data and their associated boat bookings. She needs to retrieve sailor details based on boat specifications and identify sailors associated with specific boats.

Table Details:

Symbol refers to the primary key

Symbol refers to the Foreign key

NN refers to Not NULL

Sample Input Records:

You need to:

Display the sailor name and its age for Red colored boat 101. Display all sailor details and boat details for the boat named "Interlake."

**Answer**

oracle.sql

```
SELECT S.SAILOR_NAME, S.AGE FROM SAILORS S JOIN BOATS B ON  
S.SAILOR_ID = B.SAILOR_ID WHERE B.COLOR = 'RED' AND B.BOAT_ID = '101';  
SELECT S.SAILOR_NAME, S.AGE, S.RANK, S.CITY, B.BOAT_NAME, B.COLOR,  
B.BOOKINGS_DATE FROM SAILORS S JOIN BOATS B ON S.SAILOR_ID =  
B.SAILOR_ID WHERE B.BOAT_NAME = 'INTERLAKE';
```

**Status :** Correct

**Marks :** 10/10

### 3. Problem Statement:

Sophia needs to retrieve employee details for the company "FBC", calculate the second highest salary of an employee, and list products based on specific price criteria.

Table Details:

Symbol refers to the primary key

Symbol refers to the Foreign key

NN refers to Not NULL

Sample Input Records:

You need to:

List all the employees working for "FBC". Describe the second highest salary of an employee. List products whose selling price is more than 500 and less than or equal to 750.

**Answer**

oracle.sql

```
SELECT * FROM EMPLOYEES WHERE COMPANY = 'FBC';  
SELECT MAX(SALARY) AS SECOND_HIGHEST_SALARY FROM EMPLOYEES  
WHERE SALARY < (SELECT MAX (SALARY) FROM EMPLOYEES);  
SELECT * FROM PRODUCTS WHERE SELL_PRICE > 500 AND SELL_PRICE <= 750;
```

**Status :** Correct

**Marks :** 10/10

#### 4. Problem Statement:

Sophia is working on sailor details and boat assignments. She needs to retrieve sailor information based on the characteristics and specifications of the boats they have been assigned to.

Table Details:

Symbol refers to the primary key

Symbol refers to the Foreign key

NN refers to Not NULL

Sample Input Records:

You need to:

Display the sailor name and its age for sailors who have a Red or Green colored boat. Display the sailor name and rating for boats whose name is "Clipper."

**Answer**

oracle.sql

```
SELECT S.SAILOR_NAME, S.AGE FROM SAILORS S JOIN BOATS B ON  
S.SAILOR_ID = B.SAILOR_ID WHERE B.COLOR IN ('RED', 'GREEN');  
SELECT S.SAILOR_NAME, B.RATING FROM SAILORS S JOIN BOATS B ON
```

S.SAILOR\_ID = B.SAILOR\_ID WHERE B.BOAT\_NAME = 'CLIPPER';

**Status :** Correct

**Marks :** 10/10

### 5. Problem Statement:

Sophia is managing sailor data, and she needs to retrieve sailor details based on age criteria and boat color, including the date of travel and sailor's name for specific age groups.

Table Details:

Symbol refers to the primary key

Symbol refers to the Foreign key

NN refers to Not NULL

Sample Input Records:

You need to:

Display the sailor ID and name of sailors whose age is more than 42 or who own a boat that is blue in color. Display the booking date and sailor name for sailors whose age is between 35 and 65.

**Answer**

oracle.sql

```
SELECT S.SAILOR_ID, S.SAILOR_NAME FROM SAILORS S JOIN BOATS B ON  
S.SAILOR_ID = B.SAILOR_ID WHERE S.AGE > 42 OR B.COLOR = 'BLUE';  
SELECT B.BOOKINGS_DATE, S.SAILOR_NAME FROM SAILORS S JOIN BOATS B  
ON S.SAILOR_ID = B.SAILOR_ID WHERE S.AGE BETWEEN 35 AND 65;
```

**Status :** Correct

**Marks :** 10/10