

# Parul University

Name: Prerak Doshi

Email: prerak12102004@gmail.com

Roll no: 25UG033422

Phone: 8849921118

Branch: Parul University

Department: CSE10\_Batch 1

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## PIET\_Oracle DBMS\_Course

### PIET\_Oracle DBMS\_Session 5\_PAH

Attempt : 1

Total Mark : 70

Marks Obtained : 70

#### **Section 1 : Coding**

##### **1. Problem Statement:**

James is working on a product order system for an online store. The system stores data about products, categories, and orders. James needs to retrieve and analyze product data, category information, and orders based on specific conditions.

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 products whose name starts with the letter "C". Retrieve all categories whose name contains the word "Tech". List all products that belong to the "Electronics" or "Furniture" category. Retrieve all orders where the product name contains the word "Phone".

**Answer**

oracle.sql

```
SELECT PRODUCT_NAME FROM PRODUCTS WHERE PRODUCT_NAME LIKE 'C  
%';
```

```
SELECT CATEGORY_NAME FROM CATEGORIES WHERE CATEGORY_NAME LIKE  
'%TECH%';
```

```
SELECT PRODUCT_NAME FROM PRODUCTS  
WHERE CATEGORY_ID IN (  
    SELECT CATEGORY_ID FROM CATEGORIES  
    WHERE CATEGORY_NAME LIKE 'ELECTRONICS' OR CATEGORY_NAME LIKE  
'FURNITURE'  
);
```

```
SELECT ORDER_ID FROM ORDERS  
WHERE PRODUCT_ID IN (  
    SELECT PRODUCT_ID FROM PRODUCTS  
    WHERE PRODUCT_NAME LIKE '%PHONE%'  
);
```

**Status :** Correct

**Marks :** 10/10

## 2. Problem Statement:

Isabella is working on a food delivery system. The system stores data about restaurants, customers, and orders. Isabella needs to retrieve and analyze restaurant data, customer information, and order details based on specific conditions.

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 restaurants whose name starts with the letter "S". Retrieve all customers whose name contains the word "Smith". List all products (from orders) that belong to the "Electronics" or "Furniture" category. Retrieve all orders where the product name contains the word "Phone"

**Answer**

oracle.sql

```
SELECT RESTAURANT_NAME FROM RESTAURANTS WHERE  
RESTAURANT_NAME LIKE 'S%';
```

```
SELECT CUSTOMER_NAME FROM CUSTOMERS WHERE CUSTOMER_NAME  
LIKE '%SMITH%';
```

```
SELECT PRODUCT_NAME FROM ORDERS WHERE CATEGORY LIKE  
'ELECTRONICS' OR CATEGORY LIKE 'FURNITURE';
```

```
SELECT ORDER_ID FROM ORDERS WHERE PRODUCT_NAME LIKE '%PHONE%';
```

**Status : Correct**

**Marks : 10/10**

3. Problem Statement:

Liam is working on a bookstore management system. The system stores

data about books, authors, and sales. Liam needs to retrieve and analyze book data, author information, and sales based on specific conditions.

#### 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 books whose title starts with the letter "A". Retrieve all authors whose name contains the word "John". List all books that belong to the "Science" or "Literature" category. Retrieve all sales where the book name contains the word "Python".

#### Answer

oracle.sql

```
SELECT BOOK_TITLE FROM BOOKS WHERE BOOK_TITLE LIKE 'A%';
```

```
SELECT AUTHOR_NAME FROM AUTHORS WHERE AUTHOR_NAME LIKE '%JOHN %';
```

```
SELECT BOOK_TITLE FROM BOOKS  
WHERE CATEGORY_ID IN (  
    SELECT CATEGORY_ID FROM CATEGORIES  
    WHERE CATEGORY_NAME LIKE 'SCIENCE' OR CATEGORY_NAME LIKE  
    'LITERATURE'  
);
```

```
SELECT SALE_ID FROM SALES  
WHERE BOOK_ID IN (
```

```
SELECT BOOK_ID FROM BOOKS  
WHERE BOOK_TITLE LIKE '%PYTHON%'  
);
```

**Status :** Correct

**Marks :** 10/10

#### 4. Problem Statement:

Liam is working on a library management system. The system stores data about books and authors. Liam needs to retrieve and analyze book data, author information, and library details based on specific conditions.

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 books whose title starts with the letter "A". Retrieve all authors whose name contains the word "John". List all books whose price is greater than \$30.

**Answer**

oracle.sql

```
SELECT BOOK_TITLE FROM BOOKS WHERE BOOK_TITLE LIKE 'A%';
```

```
SELECT AUTHOR_NAME FROM AUTHORS WHERE AUTHOR_NAME LIKE '%JOHN%';
```

```
SELECT BOOK_TITLE FROM BOOKS WHERE PRICE > 30;
```

Status : Correct

Marks : 10/10

### 5. Problem Statement:

Oliver is working on a university course management system. The system stores data about courses and students. Oliver needs to retrieve and analyze course data, student information, and course enrollments based on specific conditions..

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 courses whose title starts with the letter "D". Retrieve all students whose name contains the word "Chris". List all courses that are in the "Computer Science" or "Arts" category.

**Answer**

oracle.sql

```
SELECT COURSE_NAME FROM COURSES WHERE COURSE_NAME LIKE 'D%';
```

```
SELECT STUDENT_NAME FROM STUDENTS WHERE STUDENT_NAME LIKE '%CHRIS%';
```

```
SELECT COURSE_NAME FROM COURSES WHERE CATEGORY LIKE 'COMPUTER SCIENCE' OR CATEGORY LIKE 'ARTS';
```

Status : Correct

Marks : 10/10

## 6. Problem Statement:

Lucas is working on an online shop system. The system stores data about products and customers. Lucas needs to retrieve and analyze product data, customer information, and orders based on specific conditions.

### 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 products whose name starts with the letter "M". Retrieve all customers whose name contains the word "Alice". List all products whose price is greater than \$100.

**Answer**

oracle.sql

```
SELECT PRODUCT_NAME FROM PRODUCTS WHERE PRODUCT_NAME LIKE 'M%';
```

```
SELECT CUSTOMER_NAME FROM CUSTOMERS WHERE CUSTOMER_NAME LIKE '%ALICE%';
```

```
SELECT PRODUCT_NAME FROM PRODUCTS WHERE PRICE > 100;
```

**Status :** Correct

**Marks :** 10/10

## 7. Problem Statement:

Emma is working on a university management system. The system stores data about courses and students. Emma needs to retrieve and analyze course data, student information, and enrollments based on specific conditions.

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 courses whose name starts with the letter "C". Retrieve all students whose name contains the word "Alex". List all courses whose duration is greater than 6 weeks.

**Answer**

oracle.sql

```
SELECT COURSE_NAME FROM COURSES WHERE COURSE_NAME LIKE 'C%';
```

```
SELECT STUDENT_NAME FROM STUDENTS WHERE STUDENT_NAME LIKE '%ALEX%';
```

```
SELECT COURSE_NAME FROM COURSES WHERE DURATION > 6;
```

**Status : Correct**

**Marks : 10/10**