

Parul University

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Batch: 2028
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PIET_Oracle DBMS_Course

PIET_Oracle DBMS_Session 5_CY

Attempt : 1
Total Mark : 50
Marks Obtained : 50

Section 1 : Coding

1. Problem Statement:

Sophia is working on a library management system. The system stores data about books, authors, and book borrowings. Sophia needs to retrieve and analyze book data, author information, and borrowings 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 "T". Retrieve all authors whose name contains the word "John". List all books whose genre is either "Fiction" or "Non-Fiction". Retrieve all authors whose name ends with the letter "n".

Answer

oracle.sql

```
SELECT TITLE FROM BOOKS WHERE TITLE LIKE 'T%';
```

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

```
SELECT TITLE FROM BOOKS WHERE GENRE LIKE 'FICTION' OR GENRE LIKE 'NON-FICTION';
```

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

Status : Correct

Marks : 10/10

2. Problem Statement:

Lucas is working on a company management system. The system stores data about employees, departments, and projects. Lucas needs to retrieve and analyze employee data, department information, and project 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 employees whose name starts with the letter "A". Retrieve all From departments where the department name contains the word "HUMAN RESOURCE". List all employees who belong to the "Finance" or "Marketing" department. Retrieve all projects whose name contains the word "Tech".

Answer

oracle.sql

```
SELECT EMPLOYEE_NAME FROM EMPLOYEES WHERE EMPLOYEE_NAME LIKE 'A%';
```

```
SELECT * FROM DEPARTMENTS WHERE DEPARTMENT_NAME LIKE '%HUMAN RESOURCES%';
```

```
SELECT EMPLOYEE_NAME FROM EMPLOYEES  
WHERE DEPARTMENT_ID IN (SELECT DEPARTMENT_ID FROM DEPARTMENTS  
WHERE DEPARTMENT_NAME LIKE 'FINANCE' OR DEPARTMENT_NAME LIKE 'MARKETING');
```

```
SELECT PROJECT_NAME FROM PROJECTS WHERE PROJECT_NAME LIKE '%TECH%';
```

Status : Correct

Marks : 10/10

3. Problem Statement:

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

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 students whose name starts with the letter "S". Retrieve all courses whose name contains the word "Data". List all students who are enrolled in courses whose name starts with "C". Retrieve all courses whose name ends with "Science".

Answer

oracle.sql

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

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

```
SELECT STUDENT_NAME FROM STUDENTS  
WHERE COURSE_ID IN  
(  
    SELECT COURSE_ID FROM COURSES WHERE COURSE_NAME LIKE 'C%'  
);
```

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

Status : Correct

Marks : 10/10

4. Problem Statement:

Noah is working on a product inventory system. The system stores data about products, suppliers, and product orders. Noah needs to retrieve and analyze product data, supplier 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 "P". Retrieve all suppliers 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 "Laptop".

Answer

oracle.sql

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

```
SELECT SUPPLIER_NAME FROM SUPPLIERS WHERE SUPPLIER_NAME LIKE
'%TECH%';
```

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

```
SELECT ORDER_ID FROM ORDERS
WHERE PRODUCT_ID IN
(
```

```
SELECT PRODUCT_ID FROM PRODUCTS WHERE PRODUCT_NAME  
LIKE '%LAPTOP%'  
);
```

Status : Correct

Marks : 10/10

5. Problem Statement:

Olivia is working on an online store management system. The system stores data about products, categories, and orders. Olivia 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 "S". Retrieve all categories whose name contains the word "Home". List all products that belong to the "Electronics" or "Clothing" category. Retrieve all orders where the product name contains the word "Shirt".

Answer

oracle.sql

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

```
SELECT CATEGORY_NAME FROM CATEGORIES WHERE CATEGORY_NAME LIKE
```

'%HOME%';

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

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

Status : Correct

Marks : 10/10