

**1. (A) Answer the following:-**

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1. Explain PL/SQL scalar data types and subtypes.
2. Describe integrity constraint in SQL.
3. Define DML, DDL, DCL statements in SQL.

**(B) Write the SQL commands for the following tables.**

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**EMP**(Emp\_id,F\_name,L\_name,Age,City,Salary,Project\_id,  
Date\_join,Hobbies)

**Project\_2024**(Project\_id,Project\_Name,Description)

1. Display all the data from **EMP** having same age.
2. Find out employees name having in same project .
3. Display the sorting list of employee name based on L\_name.
4. Display the highest salary Project name and full name (F\_name and L\_name) who is getting minimum salary (using sub queries).
5. Display the employee name having same hobbies .

**2. (A) Answer the following:-**

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1. Describe the importance of Aggregate function in structured query language. Explain SUM,AVG,COUNT function used in programming.
2. State features of Candidate Key . How will you implement candidate key constraint .

3. Explain IN Operator and = Operator in SQL with example.

**(B) Write example of following functions(ANY FIVE):-**

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1. REPLACE()
2. CONCAT()
3. UCASE()
4. STRCMP()
5. LTRIM()
6. INITCAP()
7. FORMAT()

**3.(A) Answer the following:-**

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1. Explain importance of VIEW option in PL/SQL. (2)
2. Write the syntax for creating view on different table.(3)

OR

1. Explain the conditional statements in PL/SQL (3)
3. Explain the block environment of PL/SQL. (2)

**(B) Answer the following :-**

9

1. What different Order by clauses used in PL/SQL
2. Write PL/SQL Block that find adding 'n' numbers using FOR Loop.
3. Explain the importance of NULL value

OR

3. Write PL/SQL Block that to find the given number is Palindrome .

**4. (A) Answer the following**

6

1. Explain different attributes of explicit cursors.

OR

1. State implementation of cursors in PL/SQL.
2. Write PL/SQL code to calculate the Average salary of n employees and value of 'n' records is passed to cursor as parameter.

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**(B). Answer the following(ANY FOUR):-**

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1. Define Cursor in PL/SQL. State different cursor attributes.

OR

1. Describe different data objects used in SQL.

2. State importance of Package PL/SQL.

OR

2. Explain the specification of Package. Write the syntax code for package creation and deletion

**5.(A) Answer the following**

1. Describe types of Triggers in PL/SQL.

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2. Update Employee Table with salary increment( Rs. 5000) in every employees database(Using trigger function)

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OR

2. Write PL/SQL block for sum and average of three numbers using simple function.

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**(B) Answer the following :-**

1. State the benefits of Triggers in PL/SQL.

3

OR

1. What are the different types of JOINS in SQL.

2. Explain types of Exception in PL/SQL.

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