Practice Evaluation (5)	
Viva(5)	5
Total (10)	5
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EXERCISE-4

Writing Basic SQL SELECT Statements

OBJECTIVES AIM: To write bank SAL Select Statement

After the completion of this exercise, the students will be able to do the following:

- List the capabilities of SQL SELECT Statement
- Execute a basic SELECT statement

Capabilities of SQL SELECT statement

A SELECT statement retrieves information from the database. Using a select statement, we can perform

- ✓ Projection: To choose the columns in a table
- ✓ Selection: To choose the rows in a table
- √ Joining: To bring together the data that is stored in different tables

Basic SELECT Statement

Syntax

SELECT *|DISTINCT Column_name| alias
FROM table_name;

NOTE:

DISTINCT—Suppr ess the duplicates.

Alias—gives selected columns different headings.

Example: 1

SELECT last_name||'is a'||job_id AS "EMPLOYEES JOB" FROM employees; Eliminating Duplicate Rows

Using DISTINCT keyword.

Example:

SELECT DISTINCT department_id FROM employees;

Displaying Table Structure

Using DESC keyword.

Syntax

DESC table_name;

DESC employees; Find the Solution for the following:

True OR False

Cosefully have been dealer to the 1. The following statement executes successfully.

Identify the Errors

SELECT employee id, last name sal*12 ANNUAL SALARY FROM employees;

Queries

SELECT employee -id, last-rome, sal *12 AS "ANNVAL SALARY" FROM employees;

Show the structure of departments the table. Select all the data from it.

DESC departments;

SELECT * FROM departments;

Create a query to display the last name, job code, hire date, and employee number for each employee, with employee number appearing first.

SELECT employee-id, lost-nome, job-wide, hire-date

35 4 1 1 2 20 3

Provide an alias STARTDATE for the hire date.

SELECT Line-date AS STARTDATE FROM employees;

Create a query to display unique job codes from the employee table.

SELECT DISTINCT job-code FROM employees;

 Display the last name concatenated with the job ID, separated by a comma and space, and name the column EMPLOYEE and TITLE.

SELECT last-None 11','11 job-it AS "EMPLOYEE AND TITLE" FROM EMPLOYEES.

 Create a query to display all the data from the employees table. Separate each column by a comma. Name the column THE_OUTPUT.

SELECT employee - id Mr; 11 first-name 11', 11 last-name
11', 11 jeb-id 11', 11 balory 11', 11 hire-date AS THE-OUT PUT
FROM EMPLOYEES

Evaluation Procedure	Marks awarded
Query(5)	5
Execution (5)	5
Viva(5)	4
Total (15)	14
Faculty Signature	A Dec

RESULT:

Thus the Select statements are executed.

COMPARISON OPERATORS

1. Who are the partners of DJs on Demand who do not get an authorized expense amount?

celect hurtres - name FROM fartners where authorized - extens amount is NULL AND company

2. Select all the Oracle batabase employees whose last names end with "s". Change the heading of the column to read Possible Candidates.

Select 1-rame As "Poruble Candidates" FROM employees where L-rame like "1.5";

1) correct output:

employee-id	Part - name	ANNUAL - Salary
97	kunar	8 0000
98	bijoy	90000
99	Rohith	100000
100	Prashante	80000

2) output:

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Field	Type	Null	key	Default	Estra
dest-id	int (11)	NO	PRZ	NULL	
dept-rame	(archar (30)	NO	100	NULL	-
marager-d		XES	100	NULL	-
location-id		YES	98.93 T	NULL	-
			7 2 3		

dept-id	dept-rome Administration	morager_id	location-id
20	Marketing	202	1700
30	Purchasing Human	203	1900
50	Human Lerourus	204	1900
70	7.7	205	2 100

3) OUTPUT:

em - id	last rome	job-id	hire - date
97	kumar	I7_PRay	2020-01-13
98	bijay	HR-REP	2019-02-18
99	Pohith	IT_PROG	2021-03-20
100	pracharth	AD-ASST	2018-04-22

4) OUTPUT:

5) output:

10h-id IT-PROG HR=REP AD-ASST

6) output:

Employee AND Title

Kumar, IT-PROG

Vijuy, HR-REP

Robeth, IT-PROG

Pracharth, AD-ASST

7) Orethut:

97, Priyan, kumar, pkunor @ xyz. com, 123456-7890, 2020-01-15, IT-PROG, 6000, 0.10, 97,60 98, Prapiet, vijay, Pvijay @ xy z. com, 2020 987-654-3210; 2019-02-18, HR-REP, 4500, 0.15, 98,40 99, Prince, Robith, Probith @ xyz.com, 555-555-5555,

2021-03-20, IT-PROG, 5200, 0.20, 97,60

100, Sai; Produth, Sprandanth @ 242. com, 111-222-3383 2018 -04-22, ADD - ASST, 3000, 0.05, 99,10

Which statement(s) are valid? WHERE quantity <> NULL; WHERE quantity = NULL;

WHERE quantity IS NULL;

WHERE quantity != NULL;

4. Write a SQL statement that lists the songs in the DJs on Demand inventory that are type code 77, 12, or 1.

Select nong - title FROM inventory WHERE type-code IN(77,12,1) AND company = 'DTS on Demand'.

Logical Comparisons and Precedence Rules

Execute the two queries below. Why do these nearly identical statements produce two different results? Name the difference and explain why.

SELECT code, description

FROM d_themes

WHERE code >200 AND description IN("Tropical", 'Eootball', 'Carnival'); SELECT

code, description

FROM d_themes

WHERE code >200 OR description IN("Tropical', 'Football', 'Carnival');

The legical operator AND and both or either conditions must be met. 2. Display the last names of all Global Fast Foods employees who have "e" and "i" in their last names.

Select l-name from employees where employer = 'G hobal Fart Foods' AND L-Name LIKE '. 1. e -1. ' AND b-name LIKE 1. i-1.

3. "I need to know who the Global Fast Foods employees are that make more than \$6.50/hour and their position is not order taker."

select * from employees where employer = 'Cr hobal Fast Foods' AND howrly - wage > 6.50 4. Using the employees table, write a query to display all employees whose last names start with "D"

and have "a" and "e" anywhere in their last name.

Select # FROM employees where I - name LIKE 'D-1.1 AND l- name like '-1. a-1.1 AND l-name LIKE 1. 2. 2.1.1:

5. In which venues did DJs on Demand have events that were not in private homes?

Select listinct venue from events where artist = 'DJD on Demand' AND venue <> 'Private home!

- 6. Which list of operators is in the correct order from highest precedence to lowest precedence?
- b. NOT, OR, AND

NOT, AND, OR

For questions 7 and 8, write SQL statements that will produce the desired output.

7. Who am 1?

I was hired by Oracle after May 1998 but before June of 1999. My salary is less than \$8000 per month,

select # FROM employees WHERE hire-date > TO_DATE (1998-05-31, YXXX-MM-00) AND hire-date < TO-DATE (1999-06-01', XXXX-MM-00') AND salary < 8000 AND 8. What's my email address? (- Name Like '1. 2011')

Because I have been working for Oracle since the beginning of 1996, I make more than \$9000 per

Select email FROM employees where hire-date TO-DATE (1996-01-01, YXXX-MM-DD1) AND solvy > 9000 AND comminion-pet is NULL

Evaluation Procedure	Marks awarded
Practice Evaluation (5)	5
Viva(5)	4
Total (10)	9
Faculty Signature	Soo