



# DEPARTMENT OF ACADEMIC AFFAIRS

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## WORKSHEET 1.2

**Student Name:** Rajiv Paul  
**Branch:** CSE  
**Semester:** 3rd  
**Subject Name:** DBMS Lab

**UID:** 20BCS1812  
**Section/Group:** 6B  
**Date of Performance:** 06/09/2021  
**Subject Code:** 20CSP-215

**Q1.**

**1) Aim/Overview of the practical:**

**To create table and add the structures stated as above.**

**2) Task to be done:**

a. Count number of employee names from employee table.

SQL Worksheet

```
1 SELECT COUNT(E_name)
2 FROM Employee;
3
```

COUNT(E\_NAME)

7
---

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b. Display the Sum of age employee table

SQL Worksheet

```
1 SELECT SUM(age)
2 FROM Employee ;
```

SUM(AGE)
220

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c. Find grouped salaries of employees (group by clause).

SQL Worksheet

```
1 SELECT E_id
2 FROM Employee
3 Where Salary != 3000;
4 GROUP BY Salary;
```

E_ID
103
106
104
101

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4 rows selected.



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d. Find salaries of employee in Ascending Order (order by clause).

SQL Worksheet

```
1 SELECT * FROM Employee
2 ORDER BY Salary ASC;
```

E_ID	E_NAME	AGE	SALARY
103	Rohan	34	6000
106	Alex	27	7000
102	Shane	29	8000
105	Tiger	35	8000
107	Abhi	29	8000
101	Anu	22	9000
104	Scott	44	10000

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e. Find salaries of employee in Descending Order.

SQL Worksheet

```
1 SELECT * FROM Employee
2 ORDER BY Salary DESC;
```

E_ID	E_NAME	AGE	SALARY
104	Scott	44	10000
101	Anu	22	9000
102	Shane	29	8000
105	Tiger	35	8000
107	Abhi	29	8000
106	Alex	27	7000
103	Rohan	34	6000

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### 3) Software required:

Oracle Live SQL



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## 4) Source Code (Screenshot of the query executed):

Statement 1	<pre>create table Employee ( E_id number(10), E_name varchar2(100), Age number(10), Salary number(10) )</pre>
	Table created.
Statement 2	<pre>Insert into Employee values(101,'Anu',22,9000)</pre>
	1 row(s) inserted.
Statement 3	<pre>Insert into Employee values(102,'Shane',29,8000)</pre>
	1 row(s) inserted.
Statement 4	<pre>Insert into Employee values(103,'Rohan',34,6000)</pre>
	1 row(s) inserted.
Statement 5	<pre>Insert into Employee values(104,'Scott',44,10000)</pre>
	1 row(s) inserted.
Statement 6	<pre>Insert into Employee values(105,'Tiger',35,8000)</pre>
	1 row(s) inserted.
Statement 7	<pre>Insert into Employee values(106,'Alex',27,7000)</pre>
	1 row(s) inserted.



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Statement 8



```
Insert into Employee  
values(107,'Abhi',29,8000)
```

1 row(s) inserted.

Statement 11



```
SELECT COUNT(E_name)  
FROM Employee
```

COUNT(E_NAME)
7

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Statement 13



```
SELECT SUM(age)  
FROM Employee
```

SUM(AGE)
220

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Statement 27



```
SELECT E_id  
FROM Employee  
Where Salary !=8000
```

E_ID
103
106
104
101

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4 rows selected.



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SELECT \* FROM Employee  
ORDER BY Salary ASC

E_ID	E_NAME	AGE	SALARY
103	Rohan	34	6000
106	Alex	27	7000
102	Shane	29	8000
105	Tiger	35	8000
107	Abhi	29	8000
101	Anu	22	9000
104	Scott	44	10000

[Download CSV](#)

7 rows selected.



SELECT \* FROM Employee  
ORDER BY Salary DESC

E_ID	E_NAME	AGE	SALARY
104	Scott	44	10000
101	Anu	22	9000
102	Shane	29	8000
105	Tiger	35	8000
107	Abhi	29	8000
106	Alex	27	7000
103	Rohan	34	6000

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7 rows selected.



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## 5. Final Result/Output (after removing the errors): (Screenshot of output without any error)

SQL Worksheet

```
1 select * from Employee;
```

E_ID	E_NAME	AGE	SALARY
103	Rohan	34	6000
106	Alex	27	7000
102	Shane	29	8000
104	Scott	44	10000
107	Abhi	29	8000
101	Anu	22	9000
105	Tiger	35	8000

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## Learning outcomes (What I have learnt):

1. How to use group by clause.



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**Q2.**

**1) Aim/Overview of the practical:**

**To create table and add the structures stated as above.**

**2) Task to be done:**

- List the details of students in the ascending order of date of birth**

SQL Worksheet

```
1 Select * from College order by DOB;
```

NAME	DOB	DEPARTMENT	SALARY
Rohan	31-MAR-00	Computer	20000
Vinn	07-JUN-00	Computer	26000
Vasu	14-SEP-00	English	4000
Abhi	06-NOV-00	Sport	6000
Nathan	14-MAR-01	Computer	24000
Arpit	01-JUN-01	Computer	30000

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## b. Display the details of students from computer department

SQL Worksheet

```
1 Select * from College where Department = 'Computer';
```

NAME	DOB	DEPARTMENT	SALARY
Vinn	07-JUN-00	Computer	26000
Arpit	01-JUN-01	Computer	30000
Nathan	14-MAR-01	Computer	24000

[Download CSV](#)  
3 rows selected.

## c. List the faculties in the descending order of salary

SQL Worksheet

```
1 Select Department from College order by Salary desc;
```

DEPARTMENT
Computer
Computer
Computer
Sport
English

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## d. Display the total number of students in each department

SQL Worksheet

```
1 Select Count(Name) from College;
```

COUNT (NAME)
5

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## e. Display the total number of faculties in each department with salary greater than 25000

SQL Worksheet

```
1 Select Count(Department) from College where Salary > 25000;
```

COUNT (DEPARTMENT)
2

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### 3) Software required:

Oracle Live SQL

### 4) Source Code (screenshot of the query executed):

```
create table College
(
    Name varchar2 (100),
    DOB date,
    Department varchar2(100),
    Salary number
)
```

Table created.

```
Insert into College
values('Vasu', '14/sep/2000', 'English', 4000)
```

1 row(s) inserted.

```
Insert into College
values('Arpit', '01/jun/2001', 'Computer', 30000)
```

1 row(s) inserted.

```
Insert into College
values('Vinn', '07/jun/2000', 'Computer', 26000)
```

1 row(s) inserted.

```
Insert into College
values('Nathan', '14/march/2001', 'Computer', 24000)
```

1 row(s) inserted.



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```
Insert into College
values('Abhi', '06/nov/2000', 'Sport', 6000)
```

1 row(s) inserted.

Select \* from College order by DOB

NAME	DOB	DEPARTMENT	SALARY
Vinn	07-JUN-00	Computer	26000
Vasu	14-SEP-00	English	4000
Abhi	06-NOV-00	Sport	6000
Nathan	14-MAR-01	Computer	24000
Arpit	01-JUN-01	Computer	30000

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5 rows selected.

Select \* from College where Department = 'Computer'

NAME	DOB	DEPARTMENT	SALARY
Vinn	07-JUN-00	Computer	26000
Arpit	01-JUN-01	Computer	30000
Nathan	14-MAR-01	Computer	24000

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Select Department from College order by Salary desc

DEPARTMENT
Computer
Computer
Computer
Sport
English

[Download CSV](#)

5 rows selected.

Select Count(Name) from College

COUNT(NAME)
5

[Download CSV](#)

Select Count(Department) from College where Salary > 25000

COUNT(DEPARTMENT)
2

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## 5. Final Result/Output (after removing the errors): (Screenshot of output without any error)

NAME	DOB	DEPARTMENT	SALARY
Vinn	07-JUN-00	Computer	26000
Vasu	14-SEP-00	English	4000
Abhi	06-NOV-00	Sport	6000
Nathan	14-MAR-01	Computer	24000
Arpit	01-JUN-01	Computer	30000

[Download CSV](#)

5 rows selected.



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## Learning outcomes (What I have learnt):

1.

**Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):**

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			