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**Data Base Management System**

**Lab - 3**

**Study of AGGREGATION and SQL Clauses**

AGGREGATION Commands

* SUM
* COUNT
* AVG
* MIN
* MAX

SQL CLAUSES

* GROUP BY
* ORDER BY
* HAVING

SQL\*Plus: Release 19.0.0.0.0 - Production on Tue Feb 1 14:12:55 2022

Version 19.8.0.0.0

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Last Successful login time: Tue Feb 01 2022 14:09:25 +05:30

Connected to:

Oracle Database 19c Enterprise Edition Release 19.0.0.0.0 - Production

Version 19.13.0.0.0

SQL> create table cse(rno number(3),name varchar(25),marks number(3));

Table created.

SQL> desc cse;

Name Null? Type

----------------------------------------- -------- ----------------------------

RNO NUMBER(3)

NAME VARCHAR2(25)

MARKS NUMBER(3)

SQL> insert into cse values(646,'akshat',90);

1 row created.

SQL> insert into cse values(649,'shubham',85);

1 row created.

SQL> insert into cse values(633,'amit',95);

1 row created.

SQL> select \* from cse;

RNO NAME MARKS

---------- ------------------------- ----------

646 akshat 90

649 shubham 85

633 amit 95

SQL> savepoint s1;

Savepoint created.

SQL> insert into cse values(677,'xyz',100);

1 row created.

SQL> select \* from cse;

RNO NAME MARKS

---------- ------------------------- ----------

646 akshat 90

649 shubham 85

633 amit 95

677 xyz 100

SQL> select count(\*) from cse;

COUNT(\*)

----------

4

SQL> select min(marks) from cse;

MIN(MARKS)

----------

85

SQL> select max(marks) from cse;

MAX(MARKS)

----------

100

SQL> select avg(marks) from cse;

AVG(MARKS)

----------

92.5

SQL> select sum(marks) from cse;

SUM(MARKS)

----------

370

SQL> alter table cse add(dept varchar(20));

Table altered.

SQL> desc cse;

Name Null? Type

----------------------------------------- -------- ----------------------------

RNO NUMBER(3)

NAME VARCHAR2(25)

MARKS NUMBER(3)

DEPT VARCHAR2(20)

SQL> select \* from cse;

RNO NAME MARKS DEPT

---------- ------------------------- ---------- --------------------

646 akshat 90

649 shubham 85

633 amit 95

677 xyz 100

SQL> update cse set dept='cse';

4 rows updated.

SQL> update cse set dept='ECE' where name='xyz';

1 row updated.

SQL> select \* from cse;

RNO NAME MARKS DEPT

---------- ------------------------- ---------- --------------------

646 akshat 90 cse

649 shubham 85 cse

633 amit 95 cse

677 xyz 100 ECE

SQL> select \* from cse order by name;

RNO NAME MARKS DEPT

---------- ------------------------- ---------- --------------------

646 akshat 90 cse

633 amit 95 cse

649 shubham 85 cse

677 xyz 100 ECE

SQL> select \* from cse order by name desc;

RNO NAME MARKS DEPT

---------- ------------------------- ---------- --------------------

677 xyz 100 ECE

649 shubham 85 cse

633 amit 95 cse

646 akshat 90 cse

SQL> select count(name),dept from cse group by dept;

COUNT(NAME) DEPT

----------- --------------------

3 cse

1 ECE

SQL> select dept,count(\*) from cse group by dept having count(\*)>2;

DEPT COUNT(\*)

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cse 3

SQL>