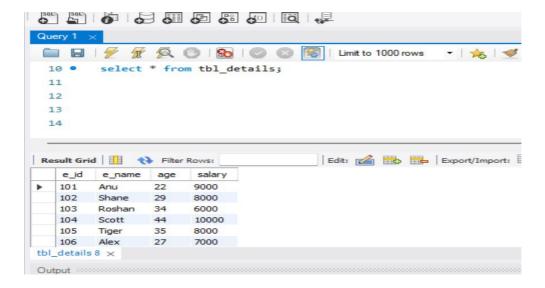
LAB ASSIGNMENT DATABASE LAB TKM COLLEGE OF ENGINEERING

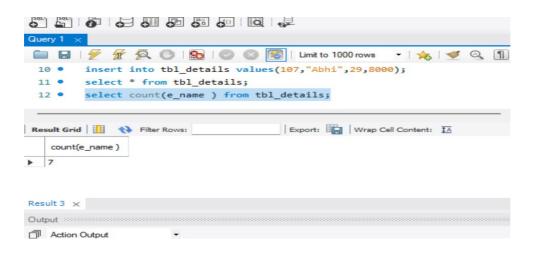
NAME: HAMNA K A ROLL NO:222

MANDATORY ASSIGNMENT

```
CREATE database db_aggemp;
use db_aggemp;
CREATE table tbl_details
(e_id int(10)primary key,
e_name varchar(15) not null,
age int(3),
salary float(15));
insert into tbl_details values(101,"Anu",22,9000);
insert into tbl_details values(102,"Shane",29,8000);
insert into tbl_details values(103,"Roshan",34,6000);
insert into tbl_details values(104,"Scott",44,10000);
insert into tbl_details values(105,"Tiger",35,8000);
insert into tbl_details values(106,"Alex",27,7000);
insert into tbl_details values(107,"Abhi",29,8000);
1.select * from tbl_details;
```



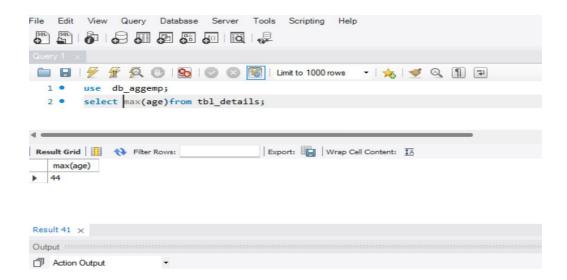
select count(e_name) from tbl_details;



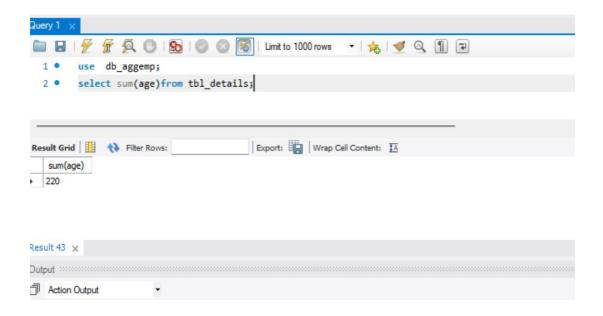
select max(age) from tbl_details;



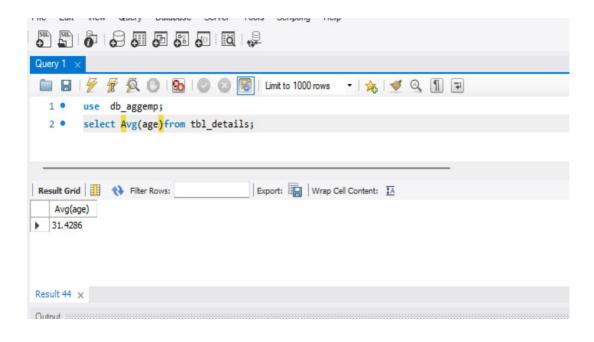
select min(age) from tbl_details;



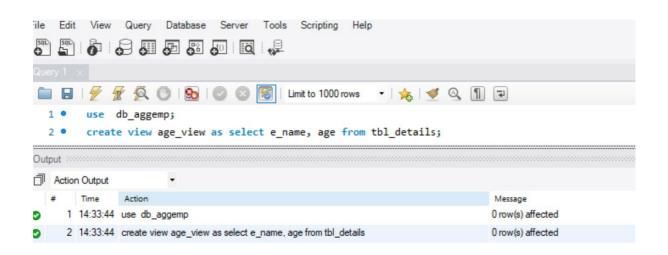
5. select sum(age)from tbl_details;



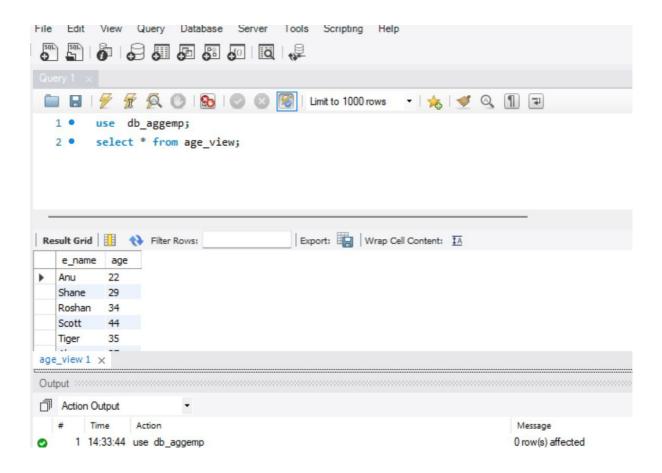
select Avg(age)from tbl_details;



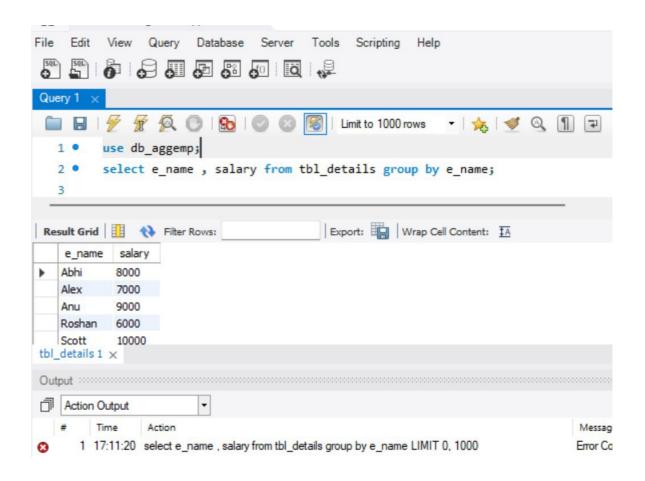
7. create view age_view as select e_name, age from tbl_details;



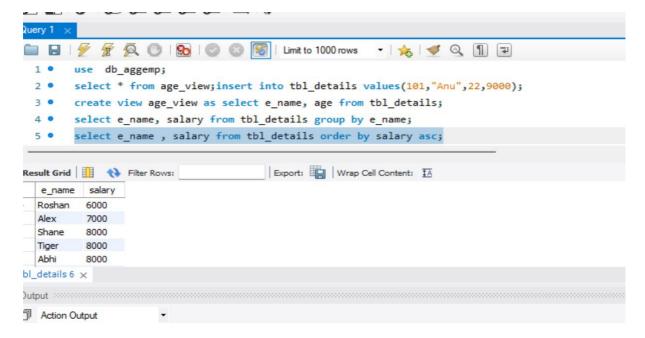
select *from details_view;



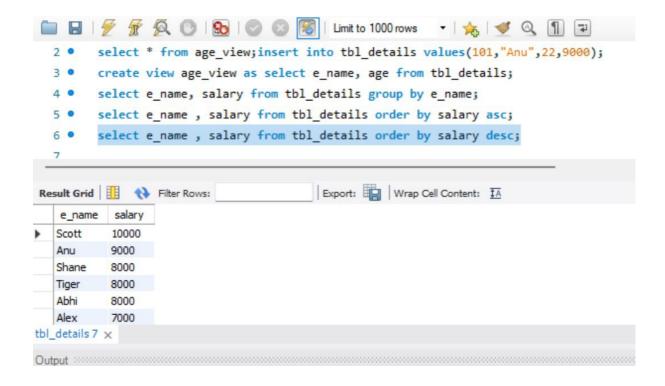
9. select e_name , salary from tbl_details group by e_name;



10. select e_name , salary from tbl_details order by salary asc; OR select e_name , salary from tbl_details order by salary ;



11. select e_name , salary from tbl_details order by salary DESC;



GROUP 3

1. Consider the database for a college and design an ER diagram. Write the query for the following.

```
(1.i) Create thetables:

Student (sid, sname, sex,
dob,dno) Department (dno,
dname)

Faculty (F_id, fname, designation,
salary,dno) Course (cid, cname, credits,dno)

Register (sid,cid,sem)

Teaching
(f_id,cid,sem)

Hostel(hid,hname,seats,
)
```

(1.ii) Include the necessary constraints NOT NULL, DEFAULT, CHECK, and PRIMARY KEY, UNIQUE.

- (1.iii) Create a databasecollege
- (1.iv) Use college as the currentdatabase
- (1.v) Display all the tables in collegedatabase
- (1.vi) Describe the structure of alltables
- (1.vii) Modify the student table to add a new field 'grade'

Consider the database for a college. Write the query for the following.

- Insert at least 5 tuples into each table.
- List the details of students in the ascending order of date of birth
- Display the details of students from computer department
- List the faculties in the descending order of salary
- Display the total number of students in each department
- Display the total number of faculties in each department with salary greater than
 25000

```
create database db_college;

use db_college;

create table tbl_student(sid int(5) primary key,sname varchar(15) not null,dob date,sex varchar(8),dname varchar(10));

create table tbl_depart(dno varchar(6) primary key,dname varchar(10));

create table tbl_faculty(F_id int(6)primary key, fname varchar(15), designation varchar(10), salary float(15),dno varchar(6));

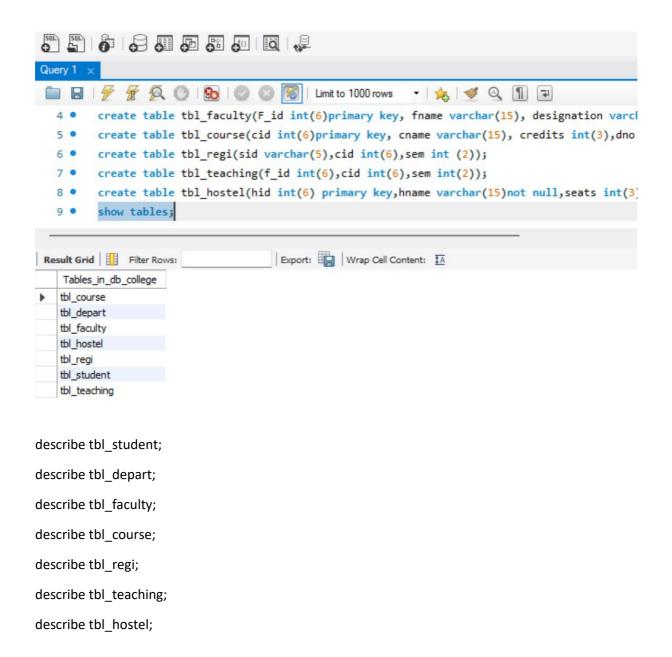
create table tbl_course(cid int(6)primary key, cname varchar(15), credits int(3),dno varchar(6));

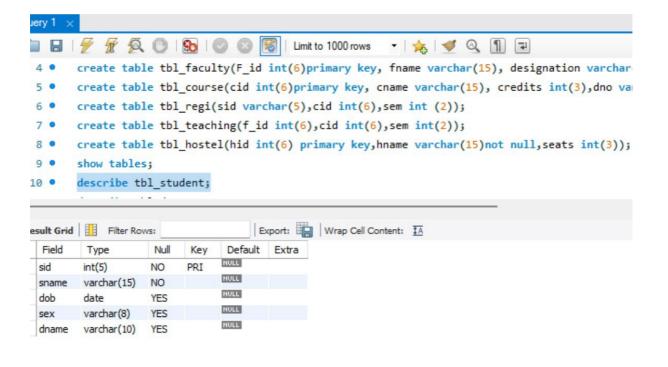
create table tbl_regi(sid int(5),cid int(6),sem int (2));

create table tbl_teaching(f_id int(6),cid int(6),sem int(2));

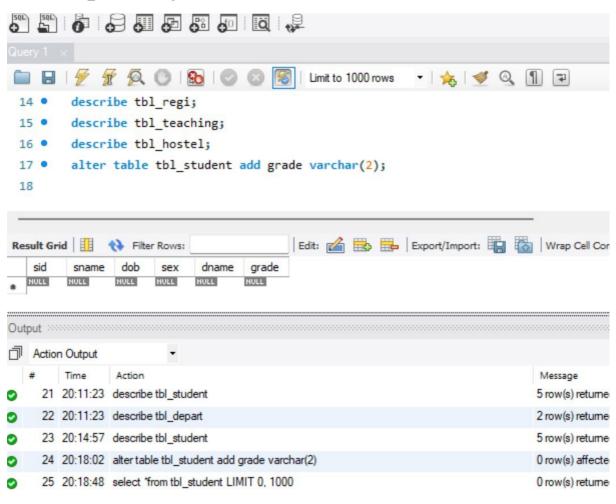
create table tbl_hostel(hid int(6) primary key,hname varchar(15)not null,seats int(3));

show tables;
```





alter table tbl_student add grade varchar(2);



insert into tbl_student values(101, "manoj", "2000-04-13", "male", "maths");

```
insert into tbl_student values(103,"trisha","1999-05-10","female","dca"); insert into tbl_student values(104,"jacob","2000-07-03","male","ecnomics"); insert into tbl_student values(105,"martin","1999-06-07","male","maths"); insert into tbl_student values(106,"anjana","2000-01-31","female","ecnomics");
```