**Data Testing Assessment**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Student Name | StudentRollNo | Class | Age | Father's Name |
| AJAY KUMAR | IETLINF01 | X | 16 | PREM KUMAR |
| RAJAT MISHRA | IETLINF02 | XI | 17 | PANKAJ MISHRA |
| SUDHEER SHARMA | IETLINF03 | IX | 15 | SUNDER SHARMA |
| NANCY KAUR | IETLINF04 | XII | 18 | AK SINGH |
| SUMITA SHARMA | IETLINF05 | IV | 14 | AJAY SHARMA |
| NANDINI GUPTA | IETLINF06 | VII | 18 | RAM GUPTA |
| RAM KUMAR | IETLINF07 | X | 16 | RAMAN KUMAR |

Tasks

1. Write sql query to find out total number of students in each class.
2. Write sql query to find out average age of students in each class.
3. Write sql query to find out the number of students having same roll no.
4. Write sql query to view the duplicate name of a student from the table.

1.Create above table in database and insert the data.

Create table students\_table(Student\_Name varchar2(20),Student\_Roll\_No varchar(20),Class varchar2(3),Age number(2),Father\_Name varchar2(20),CONSTRAINT PK\_student Primary key (Student\_Roll\_No));

select \* from students\_table;

Insert into students\_table Values ('AJAY KUMAR','IETLINF01','X',16,'PREM KUMAR');

Insert into students\_table Values ('RAJAT MISHRA','IETLINF02','XI',17,'PANKAJ MISHRA');

Insert into students\_table Values ('SUDHEER SHARMA','IETLINF03','IX',15,'SUNDER SHARMA');

Insert into students\_table Values ('NANCY KAUR','IETLINF04','XII',18,'AK SINGH');

Insert into students\_table Values ('SUMITA SHARMA','IETLINF05','IV',14,'AJAY SHARMA');

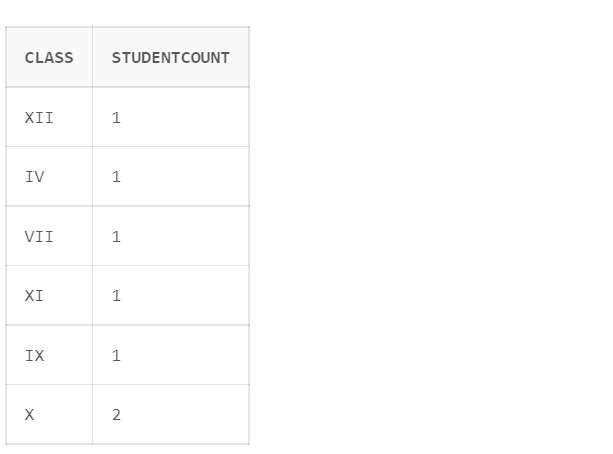
Insert into students\_table Values ('NANDINI GUPTA','IETLINF06','VII',18,'RAM GUPTA');

Insert into students\_table Values ('RAM KUMAR','IETLINF07','X',16,'RAMAN KUMAR');



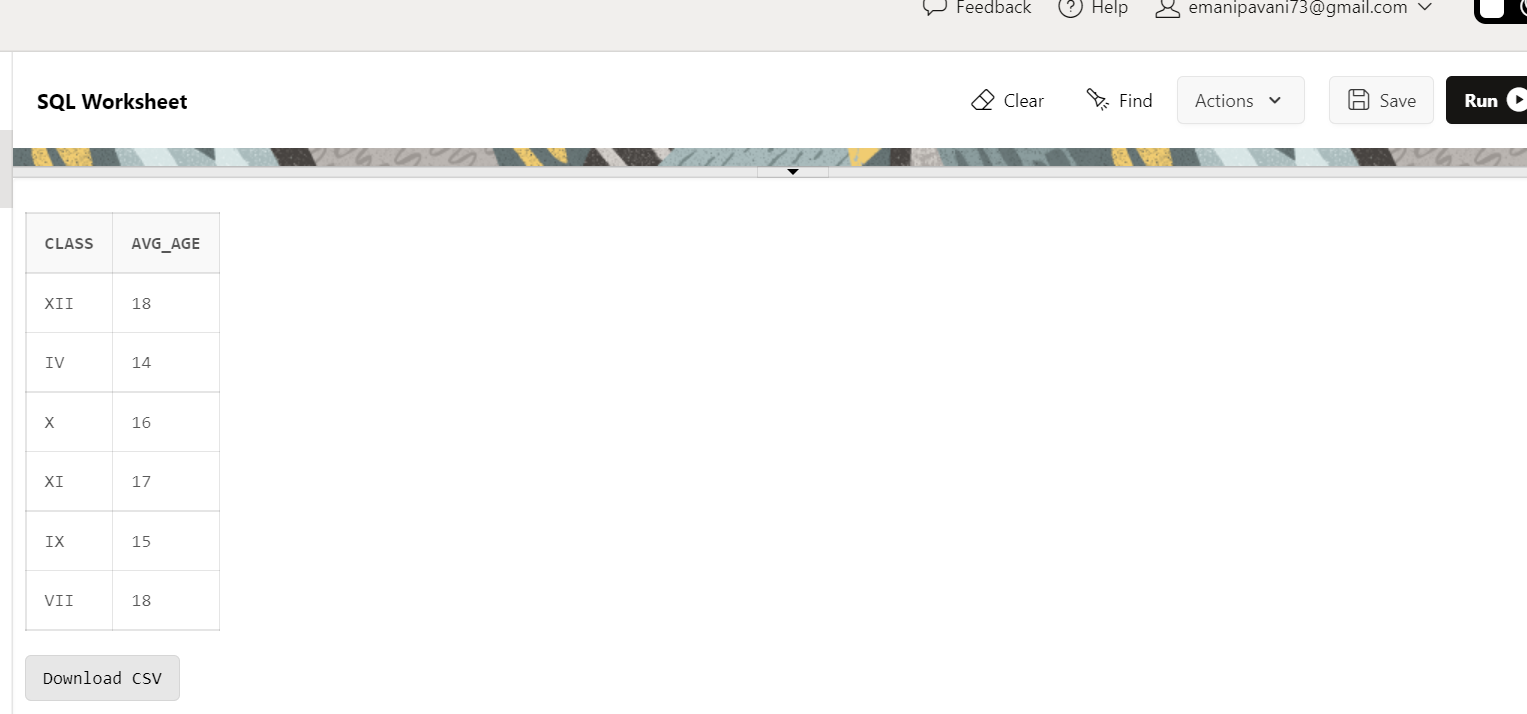
2. Write sql query to find out total number of students in each class.

select class,count(Student\_Roll\_No) as StudentCount from students\_table GROUP BY class ORDER BY StudentCount;

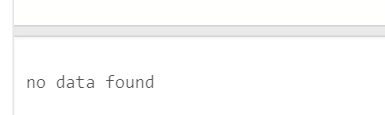


3. Write sql query to find out average age of students in each class.

select Class,AVG(Age) as Avg\_Age from Students\_table GROUP BY Class;

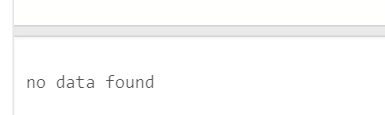
  
4. Write sql query to find out the number of students having same roll no.

SELECT COUNT(Student\_Roll\_No) from Students\_table GROUP BY Student\_Roll\_No HAVING COUNT(Student\_Roll\_No) > 1 ;



5. Write sql query to view the duplicate name of a student from the table.

select Student\_Name from Students\_table GROUP BY Student\_Name HAVING COUNT(\*)>1;



Added a duplicate Name

Insert into students\_table Values ('AJAY KUMAR','IETLINF08','1X',14,'KUMAR');

select \* from Students\_table;

