Given Data

Data Testing Assessment

A school 'Study & Play' has different branches in India. Students appeared in 10th & 12th board have scored good marks in different subjects. 'Study & Play' wants to recognize teachers across different streams to award them for their student's performance.

'Student & Play' are looking for a data warehouse solution to do analysis on student performance in a particular branch or subject.

Exercise -

As a part of this exercise, use the below Student data to import in database table.

Sample Data –

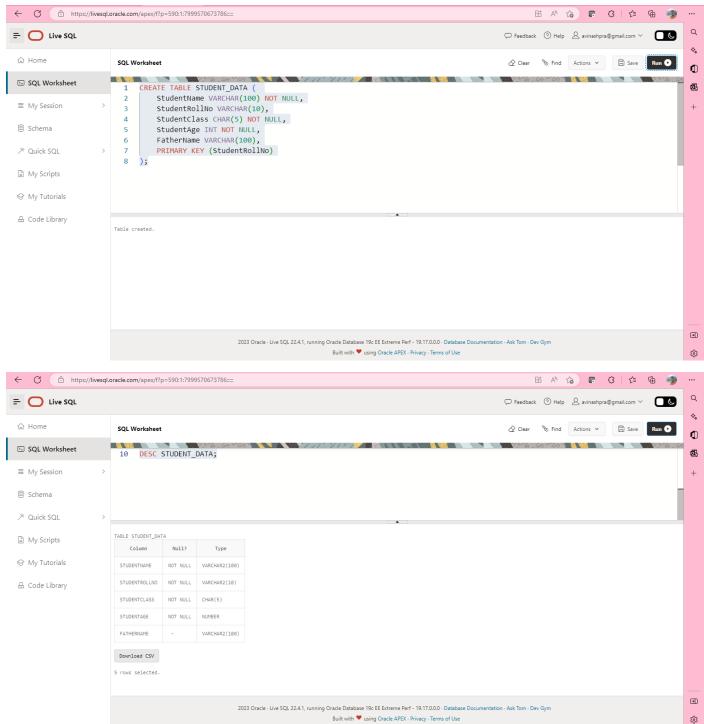| Student Name	StudentRollNo	Class	Age	Father's Name
AJAY KUMAR	IETLINF01	X	16	PREM KUMAR
RAJAT MISHRA	IETLINF02	XI	17	PANKAJ MISHRA
SUDHEER SHARMA	IETLINF03	IX	15	SUNDER SHARMA
NANCY KAUR	IETLINF04	XII	18	AK SINGH
SUMITA SHARMA	IETLINF05	IV	14	AJAY SHARMA
NANDINI GUPTA	IETLINF06	VII	18	RAM GUPTA
RAM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

Tasks

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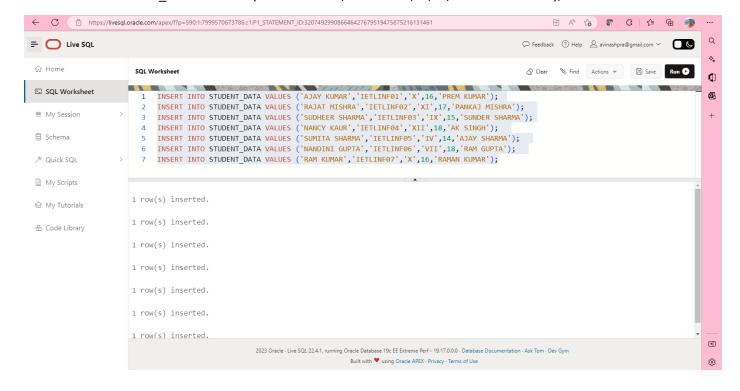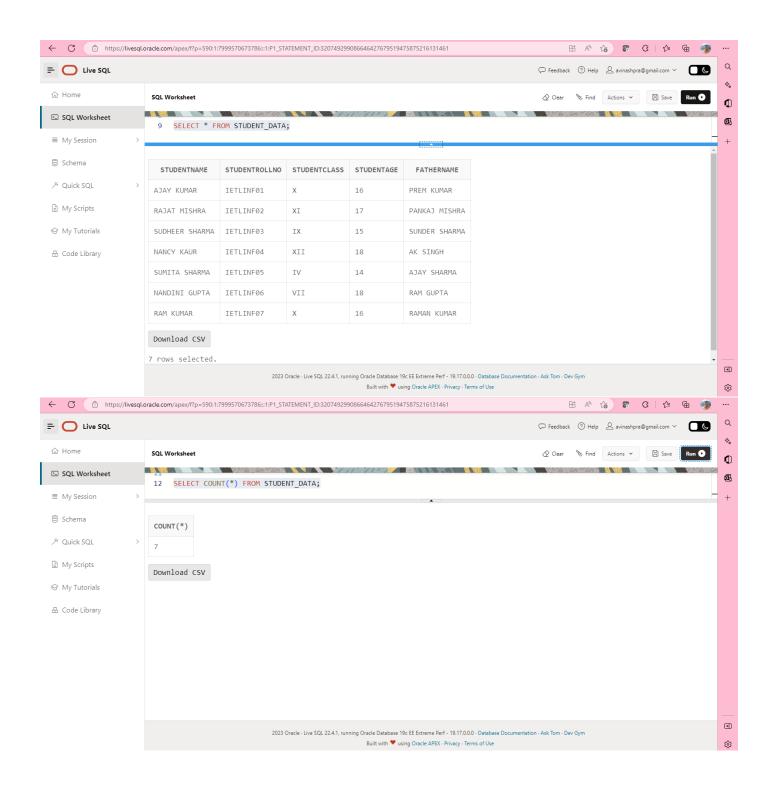

ANSWERS

TASKS

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

CREATE TABLE STUDENT_DATA (

StudentName VARCHAR(100) NOT NULL,

StudentRollNo VARCHAR(10),

StudentClass CHAR(5) NOT NULL,

StudentAge INT NOT NULL,

FatherName VARCHAR(100),

PRIMARY KEY (StudentRollNo)

)

INSERTING THE GIVEN DATA

INSERT INTO STUDENT_DATA VALUES ('AJAY KUMAR','IETLINF01','X',16,'PREM KUMAR');

INSERT INTO STUDENT_DATA VALUES ('RAJAT MISHRA','IETLINF02','XI',17,'PANKAJ MISHRA');

INSERT INTO STUDENT_DATA VALUES ('SUDHEER SHARMA','IETLINF03','IX',15,'SUNDER SHARMA');

INSERT INTO STUDENT_DATA VALUES ('NANCY KAUR','IETLINF04','XII',18,'AK SINGH');

INSERT INTO STUDENT_DATA VALUES ('SUMITA SHARMA','IETLINF05','IV',14,'AJAY SHARMA');

INSERT INTO STUDENT_DATA VALUES ('NANDINI GUPTA','IETLINF06','VII',18,'RAM GUPTA');

INSERT INTO STUDENT_DATA VALUES ('RAM KUMAR','IETLINF07','X',16,'RAMAN KUMAR');

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```
9    SELECT * FROM STUDENT_DATA;
```

STUDENTNAME	STUDENTROLLNO	STUDENTCLASS	STUDENTAGE	FATHERNAME
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

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7 rows selected.

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```
12   SELECT COUNT(*) FROM STUDENT_DATA;
```

COUNT(*)
7

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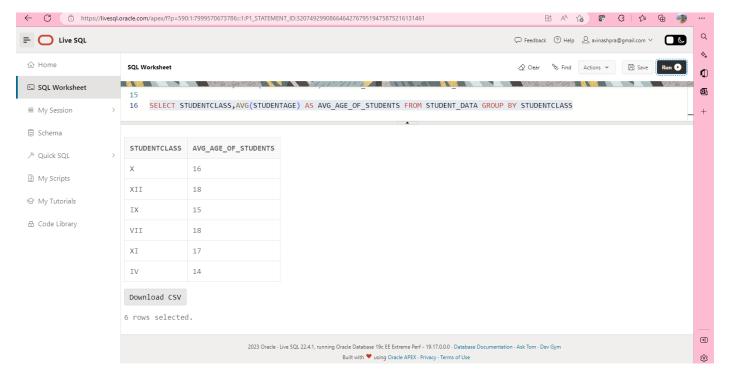2ND) Write sql query to find out total number of students in each class.

SELECT STUDENTCLASS, COUNT(STUDENTROLLNO) AS TOTAL_STUDENT FROM STUDENT_DATA GROUP BY STUDENTCLASS;
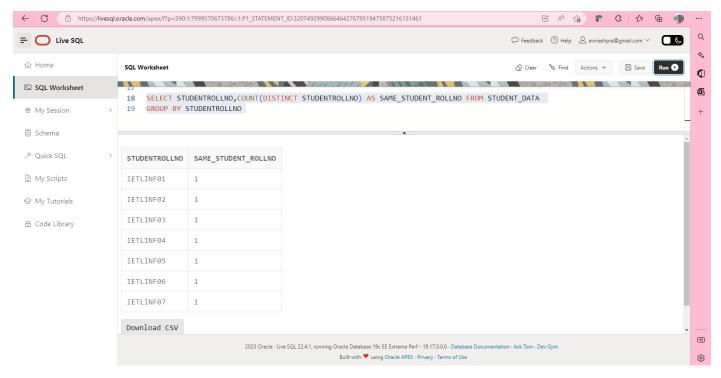

3RD) Write sql query to find out average age of students in each class.

SELECT STUDENTCLASS,AVG(STUDENTAGE) AS AVG_AGE_OF_STUDENTS FROM STUDENT_DATA GROUP BY STUDENTCLASS ORDER BY STUDENTCLASS;
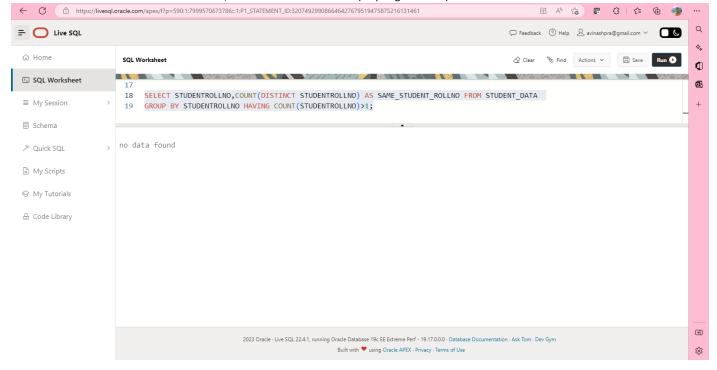

4TH) Write sql query to find out the number of students having same roll no.

SELECT STUDENTROLLNO, COUNT (DISTINCT STUDENTROLLNO) AS SAME_STUDENT_ROLLNO FROM STUDENT_DATA

GROUP BY STUDENTROLLNO;

There are no same roll number students. So, in result is no data found. (As per given data)

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

SELECT STUDENTNAME, COUNT (*) AS STUDENT_NAME_OCCURANCE FROM STUDENT_DATA

GROUP BY STUDENTNAME HAVING COUNT(STUDENTNAME)>1;

There are no names similar. So, in result is no data found. (As per given data)


```
23  SELECT STUDENTNAME,COUNT(*) AS STUDENT_NAME_OCCURANCE FROM STUDENT_DATA
24  GROUP BY STUDENTNAME HAVING COUNT(STUDENTNAME)>1;
25
```

no data found

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