BIRLA INSTITUTE OF TECHNOLOGY

(MESRA, PATNA CAMPUS)



SOL OUERIES ASSIGNMENT

SUBMITTED BY: Shubham Sourabh

ROLL: BTECH/15044/18

SEMESTER: VI BRANCH: CSE

SUBMITTED TO:
DR. R. S PANDEY SIR

COMPLETE QUERY:

insert into school

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use schooldata;
create table school(Student id int not null, Standard int, Subject id
int, Marks int, primary key(Student id));
create table teacher class map(Teacher_id int notnull,Standard
int, Subject id int, primary key(Teacher id));
create table Student(Student id int not null, Student name
varchar(20),primary key(Student id));
create table Teacher (Teacher id int not null, Teacher name
varchar(20), primary key(Teacher id));
create table Subjects(Subject id int not null, Subject name
varchar(20), Optional varchar(1), primary key(Subject id));
insert into school
values (21,8,101,95);
insert into school
values (22,8,101,55);
insert into school
values (23,9,102,70);
insert into school
values (24,9,102,80);
insert into school
values (25,10,103,70);
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values (26,10,103,50);
insert into school
values (27,11,104,90);
insert into school
values (28,11,104,60);
insert into school
values (29,12,105,86);
insert into school
values (30,12,105,66);
insert into school
values (29,12,105,86);
insert into teacher class map
values (1,8,101);
insert into teacher class map
values (2,9,102);
insert into teacher class map
values (3,10,103);
insert into teacher class map
values (4,11,104);
insert into teacher class map
values (5,12,105);
select * from teacher class map;
insert into Student values (21,'HIMANSHU');
insert into Student
values (22,'KISLAY');
insert into Student
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values (23,'ANISH');
insert into Student
values (24,'RAJ');
insert into Student
values (25,'SHUBHAM');
insert into Student
values (26, 'SOURABH');
insert into Student
values (27,'APARNA');
insert into Student
values (28,'JAYANTI');
insert into Student
values (29,'SOUMYA');
insert into Student
values (30,'SHILPI');
select * from Student;
insert into Teacher
values (1,'PANDEYSIR');
insert into Teacher
values (2,'AYAN DAS');
insert into Teacher
values (3,'SHWETA MAUKHERJEE');
insert into Teacher
values (4,'RATNESH Mishra');
insert into Teacher
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```
values (5,'UMARBUIN Kumar');
insert into Subjects
values (1,'Mathematics','N');
insert into Subjects
values (2,'Physics','N');
insert into Subjects
values (3,'Chemistry','N');
insert into Subjects
values (4,'Biology','Y');
insert into Subjects
values (5, 'English', 'N');
NOW QUESTIONS ASKED:
```

#1 no of students in each standard

SQL QUERIES:

select Standard, count(Standard) as Count from school group by Standard;

#2 students passed -

select count(Student_id) as 'Number of student passed' from school where Marks >= 60;

#3 failed in more than one sub

SELECT COUNT(student_id) FROM school WHERE marks IN (SELECT marks < 60 FROM school WHERE marks IN (SELECT SUM(marks) < 50 FROM school));

#4 performance of each teacher

#passed

SELECT teacher_class_map.Teacher_id,count(Student_id) as 'Passed' FROM school INNER JOIN teacher_class_map ON school.Subject_id=teacher_class_map.Subject_id where school.marks >= 60 group by Teacher_id;

#failed

SELECT teacher_class_map.Teacher_id,count(Student_id) as 'Failed' FROM school INNER JOIN teacher_class_map ON school.Subject_id=teacher_class_map.Subject_id where school.marks < 60 group by Teacher id;

<u>#5</u>

#5.1 total students

select count(Student id) as 'Total Students' from school;

#5.2 student - teacher ratio

select count(Student_id)/count(distinct Subject_id) as 'Student-teacher
ratio' from school;

#5.3 #avg class size

select count(Student_id)/count(distinct Subject_id) as 'Average Class size'
from school;

#5.4 percentage of student passed

select count(Student_id) * 100.0/(select count(Student_id) from school) as 'Percentage of student passed' from school where Marks >= 60;

#5.5 percentage with distinction.

select count(Student_id) * 100.0/(select count(Student_id) from school) as 'Percentage of student passed with distinction' from school where Marks >= 70;

THE END