```
/* view table */

select * from cryptic-yen-416713.Students_Performance.StudentsPerformances;


/* Total number of students */

select count(case when Gender = "Male" then 1 end) as Male_students,

count(case when Gender = "Female" then 1 end) as Female_students

from cryptic-yen-416713.Students_Performance.StudentsPerformances;


/* Students with scores above 70 */

select

  count(case when Gender = "Male" and Exam_Score > 70 then 1 end) as MaleStudents,

  count(case when Gender = "Female" and Exam_Score > 70 then 1 end) as
FemaleStudents

from cryptic-yen-416713.Students_Performance.StudentsPerformances;


/* Parental involvemnt */

select count(case when Parental_Involvement = "Low" then 1 end) as
Low_parental_involvement,
```

```
count(case when Parental_Involvement = "Medium" then 1 end) as
Medium_parental_involvement,
count(case when Parental_Involvement = "High" then 1 end) as
High_parental_involvement
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* How parental involvement impacted students scores */
select
  count(case when Parental_Involvement = "Low" and Exam_Score > 70 then 1 end) as
Low_parental_involvement,
  count(case when Parental_Involvement = "Medium" and Exam_Score > 70 then 1 end) as
Medium_parental_involvement,
  count(case when Parental_Involvement = "High" and Exam_Score > 70 then 1 end) as
High_parental_involvement,
  round(count(case when Parental_Involvement = "Low" and Exam_Score > 70 then 1 end)
/
  count(case when Parental_Involvement = "Low" then  1  end) * 100, 2) as Percentage_low,
  round(count(case when Parental_Involvement = "Medium" and Exam_Score > 70 then 1
end) /
```

```
  count(case when Parental_Involvement = "Medium" then 1 end) * 100, 2) as
Percentage_medium,
  round(count(case when Parental_Involvement = "High" and Exam_Score > 70 then 1
end) /
  count(case when Parental_Involvement = "High" then 1 end) * 100, 2) as Percentage_high
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Family income */
select
  count(case when Family_Income = "Low" then 1 end) as Low_family_income,
  count(case when Family_Income = "Medium" then 1 end) as Medium_family_income,
  count(case when Family_income = "High" then 1 end) as High_family_income
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* How family income impacted students scores */
select
  count(case when Family_Income = "Low" and Exam_Score > 70 then 1 end) as
Low_family_income,
```

```
  count(case when Family_Income = "Medium" and Exam_Score > 70 then 1 end) as
Medium_family_income,
  count(case when Family_Income = "High" and Exam_Score > 70 then 1 end) as
High_family_income,
  round(count(case when Family_Income = "Low" and Exam_Score > 70 then 1 end) /
  count(case when Family_Income = "Low" then 1 end) * 100, 2) as Percentage_low,
  round(count(case when Family_Income = "Medium" and Exam_Score > 70 then 1 end) /
  count(case when Family_Income = "Medium" then 1 end) * 100, 2) as
Percentage_medium,
  round(count(case when Family_Income = "High" and Exam_Score > 70 then 1 end) /
  count(case when Family_Income = "High" then 1 end) * 100, 2) as Percentage_high
from cryptic-yen-416713.Students_Performance.StudentsPerformances;


/* Parental education level */
select
  count(case when Parental_Education_Level = "High School" then 1 end) as High_school,
  count(case when Parental_Education_Level = "College" then 1 end) as College,
  count(case when Parental_Education_Level = "Postgraduate" then 1 end) as
Postgraduate
```

```
from cryptic-yen-416713.Students_Performance.StudentsPerformances;


/* How students scores were impacted by parental education */

select

  count(case when Parental_Education_Level = "High School" and Exam_Score > 70 then 1
end) as High_school,

  count(case when Parental_Education_Level = "College" and Exam_Score > 70 then 1
end) as College,

  count(case when Parental_Education_Level = "Postgraduate" and Exam_Score > 70 then
1 end) as Postgraduate,

  round(count(case when Parental_Education_Level = "High School" and Exam_Score >
70 then 1 end) /

  count(case when Parental_Education_Level = "High School" then 1 end) * 100, 2) as
Percentage_highschool,

  round(count(case when Parental_Education_Level = "College" and Exam_Score > 70
then 1 end) /

  count(case when Parental_Education_Level = "College" then 1 end) * 100, 2) as
Percentage_college,

  round(count(case when Parental_Education_Level = "Postgraduate" and Exam_Score >
70 then 1 end) /
```

```
  count(case when Parental_Education_Level = "Postgraduate" then 1 end) * 100, 2) as
Percentage_postgraduate
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Access to resources */
select
  count(case when Access_to_Resources = "Low" then 1 end) as Low_access,
  count(case when Access_to_Resources = "Medium" then 1 end) as Medium_access,
  count(case when Access_to_Resources = "High" then 1 end) as High_access
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Access to resources effects on students scores */
select
  count(case when Access_to_Resources = "Low" and Exam_Score > 70 then 1 end) as Low,
  count(case when Access_to_Resources = "Medium" and Exam_Score > 70 then 1 end) as
Medium,
  count(case when Access_to_Resources = "High" and Exam_Score > 70 then 1 end) as
High,
  round(count(case when Access_to_Resources = "Low" and Exam_Score > 70 then 1 end) /
```

```
  count(case when Access_to_Resources = "Low" then 1 end) * 100, 2) as Percentage_low,
  round(count(case when Access_to_Resources = "Medium" and Exam_Score > 70 then 1
end) /
  count(case when Access_to_Resources = "Medium" then 1 end) * 100, 2) as
Percentage_medium,
  round(count(case when Access_to_Resources = "High" and Exam_Score > 70 then 1 end)
/
  count(case when Access_to_Resources = "High" then 1 end) * 100, 2) as Percentage_High
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Teacher quality */
select
  count(case when Teacher_Quality = "Low" then 1 end) as Low,
  count(case when Teacher_Quality = "Medium" then 1 end) as Medium,
  count(case when Teacher_Quality = "High" then 1 end) as High
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Teacher quality influence on students scores */
select
```

```
  count(case when Teacher_Quality = "Low" and Exam_Score > 70 then 1 end) as Low,
  count(case when Teacher_Quality = "Medium" and Exam_Score > 70 then 1 end) as
Medium,
  count(case when Teacher_Quality = "High" and Exam_Score > 70 then 1 end) as High,
  round(count(case when Teacher_Quality = "Low" and Exam_Score > 70 then 1 end) /
  count(case when Teacher_Quality = "Low" then 1 end) * 100, 2) as Percentage_low,
  round(count(case when Teacher_Quality = "Medium" and Exam_Score > 70 then 1 end) /
  count(case when Teacher_Quality = "Medium" then 1 end) * 100, 2) as
Percentage_medium,
  round(count(case when Teacher_Quality = "High" and Exam_Score > 70 then 1 end) /
  count(case when Teacher_Quality = "High" then 1 end) * 100, 2) as Percentage_High
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* School type */
select
  count(case when School_Type = "Public" then 1 end) as Public,
  count(case when School_TYpe = "Private" then 1 end) as Private
from cryptic-yen-416713.Students_Performance.StudentsPerformances;
```

```
/* How school type affected scores of students */

 select

  count(case when School_Type = "Public" and Exam_Score > 70 then 1 end) as Public,

  count(case when School_TYpe = "Private" and Exam_Score > 70 then 1 end) as Private,

  round(count(case when School_Type = "Public" and Exam_Score > 70 then 1 end) /

  count(case when School_Type = "Public" then 1 end) * 100, 2) as Percentage_public,

  round(count(case when School_Type = "Private" and Exam_Score > 70 then 1 end) /

  count(case when School_Type = "Private" then 1 end) * 100, 2) as Percentage_Private

from cryptic-yen-416713.Students_Performance.StudentsPerformances;


/* Extracurricular activities */

select

  count(case when Extracurricular_Activities = True then 1 end) as Yescount,

  count(case when Extracurricular_Activities = False then 1 end) as Nocount

from cryptic-yen-416713.Students_Performance.StudentsPerformances;


/* Impact of extracurricular activities on students scores */

select
```

```
  count(case when Extracurricular_Activities = True and Exam_Score > 70 then 1 end) as
Yescount,
  count(case when Extracurricular_Activities = False and Exam_Score > 70 then 1 end) as
Nocount,
  round(count(case when Extracurricular_Activities = True and Exam_Score > 70 then 1
end) /
  count(case when Extracurricular_Activities = True then 1 end) * 100, 2) as
Percentage_yes,
  round(count(case when Extracurricular_Activities = False and Exam_Score > 70 then 1
end) /
  count(case when Extracurricular_Activities = False then 1 end) * 100, 2) as Percentage_no
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Internet access */
select
  count(case when Internet_Access = True then 1 end) as Internet_access,
  count(case when Internet_Access = False then 1 end) as No_internet_access
from cryptic-yen-416713.Students_Performance.StudentsPerformances;
```

```
/* Effect of internet access on students score */

select

  count(case when Internet_Access = True and Exam_Score > 70 then 1 end) as
Internet_access,

  count(case when Internet_Access = False and Exam_Score > 70 then 1 end) as
No_internet_access,

  round(count(case when Internet_Access = True and Exam_Score > 70 then 1 end) /

  count(case when Internet_Access = True then 1 end) * 100, 2) as
Percentage_internet_access,

  round(count(case when Internet_Access = False and Exam_Score > 70 then 1 end) /

  count(case when Internet_Access = False then 1 end) * 100, 2) as
Percentage_no_internet_access

from cryptic-yen-416713.Students_Performance.StudentsPerformances;



/* Motivation level */

select

  count(case when Motivation_Level = "Low" then 1 end) as Low_motivation_level,

  count(case when Motivation_Level = "Medium" then 1 end) as Medium_motivation_level,

  count(case when Motivation_Level = "High" then 1 end) as High_motivation_level
```

```
from cryptic-yen-416713.Students_Performance.StudentsPerformances;


/* How motivation level influenced students scores */

select

  count(case when Motivation_Level = "Low" and Exam_Score > 70 then 1 end) as
Low_motivation_level,

  count(case when Motivation_Level = "Medium" and Exam_Score > 70 then 1 end) as
Medium_motivation_level,

  count(case when Motivation_Level = "High" and Exam_Score > 70 then 1 end) as
High_motivation_level,

  round(count(case when Motivation_Level = "Low" and Exam_Score > 70 then 1 end) /

  count(case when Motivation_Level = "Low" then 1 end) * 100, 2) as
Percentage_low_motivation_level,

  round(count(case when Motivation_Level = "Medium" and Exam_Score > 70 then 1 end)
/

  count(case when Motivation_Level = "Medium" then 1 end) * 100, 2) as
Percentage_medium_motivation_level,

  round(count(case when Motivation_Level = "High" and Exam_Score > 70 then 1 end) /

  count(case when Motivation_Level = "High" then 1 end) * 100, 2) as
Percentage_high_motivation_level,
```

```
from cryptic-yen-416713.Students_Performance.StudentsPerformances;


/* Peer influence */
select
  count(case when Peer_Influence = "Neutral" then 1 end) as Neutral,
  count(case when Peer_Influence = "Positive" then 1 end) as Positive,
  count(case when Peer_Influence = "Negative" then 1 end) as Negative
from cryptic-yen-416713.Students_Performance.StudentsPerformances;


/* How peer influence impacted students scores */
select
  count(case when Peer_Influence = "Neutral" and Exam_Score > 70 then 1 end) as
Neutral,
  count(case when Peer_Influence = "Positive" and Exam_Score > 70 then 1 end) as
Positive,
  count(case when Peer_Influence = "Negative" and Exam_Score > 70 then 1 end) as
Negative,
  round(count(case when Peer_Influence = "Neutral" and Exam_Score > 70 then 1 end) /
  count(case when Peer_Influence = "Neutral" then 1 end) * 100, 2) as Percentage_neutral,
```

```
  round(count(case when Peer_Influence = "Positive" and Exam_Score > 70 then 1 end) /
  count(case when Peer_Influence = "Positive" then 1 end) * 100, 2) as Percentage_positive,
  round(count(case when Peer_Influence = "Negative" and Exam_Score > 70 then 1 end) /
  count(case when Peer_Influence = "Negative" then 1 end) * 100, 2) as Percentage_ngative
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Learning disabilities */
select
  count(case when Learning_Disabilities = true then 1 end) as count_true,
  count(case when Learning_Disabilities = false then 1 end) as count_false
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* How learning disabilities impacted students scores */
select
  count(case when Learning_Disabilities = true and Exam_Score > 70 then 1 end) as
count_true,
  count(case when Learning_Disabilities = false and Exam_Score > 70 then 1 end) as
count_false,
  round(count(case when Learning_Disabilities = true and Exam_Score > 70 then 1 end) /
```

```
  count (case when Learning_Disabilities = true then 1 end) * 100, 2) as Percentage_true,
  round(count(case when Learning_Disabilities = false and Exam_Score > 70 then 1 end) /
  count (case when Learning_Disabilities = false then 1 end) * 100, 2) as Percentage_false
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Distance from home */
select
  count(case when Distance_from_Home = "Far" then 1 end) as Far,
  count(case when Distance_from_Home = "Near" then 1 end) as Near,
  count(case when Distance_from_Home = "Moderate" then 1 end) as Moderate
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Effect of distance from home on students score */
select
  count(case when Distance_from_Home = "Far" and Exam_Score > 70 then 1 end) as Far,
  count(case when Distance_from_Home = "Near" and Exam_Score > 70 then 1 end) as
Near,
  count(case when Distance_from_Home = "Moderate" and Exam_Score > 70 then 1 end)
as Moderate,
```

```
  round(count(case when Distance_from_Home = "Far" and Exam_Score > 70 then 1 end) /
  count(case when Distance_from_Home = "Far" then 1 end) * 100, 2) as Percentage_far,
  round(count(case when Distance_from_Home = "Near" and Exam_Score > 70 then 1 end)
/
  count(case when Distance_from_Home = "Near" then 1 end) * 100, 2) as Percentage_near,
  round(count(case when Distance_from_Home = "Moderate" and Exam_Score > 70 then 1
end) /
  count(case when Distance_from_Home = "Moderate" then 1 end) * 100, 2) as
Percentage_moderate
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Hours studied */
select
  count(case when Hours_Studied >= 1 and Hours_Studied < 16 then 1 end) as
Short_study_time,
  count(case when Hours_Studied > 15 and Hours_Studied < 31 then 1 end) as
Medium_study_time,
  count(case when Hours_Studied > 30 then 1 end) as Long_study_time
from cryptic-yen-416713.Students_Performance.StudentsPerformances;
```

```
/* How students study hours affect their exam scores */

select

  count(case when Hours_Studied >= 1 and Hours_Studied < 16 and Exam_Score > 70 then
1 end) as Short_study_time,

  count(case when Hours_Studied > 15 and Hours_Studied < 31 and Exam_Score > 70 then
1 end) as Medium_study_time,

  count(case when Hours_Studied > 30 and Exam_Score > 70 then 1 end) as
Long_study_time,

  round(count(case when Hours_Studied >= 1 and Hours_Studied < 16 and Exam_Score >
70 then 1 end) /

  count(case when Hours_Studied >=1 and Hours_Studied < 16 then 1 end) * 100, 2) as
Percentage_short,

  round(count(case when Hours_Studied > 15 and Hours_Studied < 31 and Exam_Score >
70 then 1 end) /

  count(case when Hours_Studied > 15 and Hours_Studied < 31 then 1 end) * 100, 2) as
Percentage_medium,

  round(count(case when Hours_Studied > 30 and Exam_Score > 70 then 1 end) /

  count(case when Hours_Studied > 30 then 1 end) * 100, 2) as Percentage_long

from cryptic-yen-416713.Students_Performance.StudentsPerformances;
```

```
/* Attendance */

select

  count(case when Attendance >= 60 and Attendance < 75 then 1 end) as Poor,

  count(case when Attendance > 74 and Attendance < 90 then 1 end) as Average,

  count(case when Attendance > 89 then 1 end) as Good

from cryptic-yen-416713.Students_Performance.StudentsPerformances;



/* Effect of attendance on students scores */

select

  count(case when Attendance >= 60 and Attendance < 75 and Exam_Score > 70 then 1 end)
as Poor,

  count(case when Attendance > 74 and Attendance < 90 and Exam_Score > 70 then 1 end)
as Average,

  count(case when Attendance > 89 and Exam_Score > 70 then 1 end) as Good,

  round(count(case when Attendance >= 60 and Attendance < 75 and Exam_Score > 70 then
1 end) /

  count(case when Attendance >= 60 and Attendance < 75 then 1 end) * 100, 2) as
Percentage_poor,
```

```
  round(count(case when Attendance > 74 and Attendance < 90 and Exam_Score > 70 then
1 end) /
  count(case when Attendance > 74 and Attendance < 90 then 1 end) * 100, 2) as
Percentage_average,
  round(count(case when Attendance > 89 and Exam_Score > 70 then 1 end) /
  count(case when Attendance > 89 then 1 end) * 100, 2) as Percentage_good
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Sleep hours */
select
  count(case when Sleep_Hours >= 4 and Sleep_Hours < 7 then 1 end) as
Short_sleep_hours,
  count(case when Sleep_Hours > 6 then 1 end) as Long_sleep_hours
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* How sleep hours impacted students scores */
select
  count(case when Sleep_Hours >= 4 and Sleep_Hours < 7 and Exam_Score > 70 then 1
end) as Short_sleep_hours,
```

```
  count(case when Sleep_Hours > 6 and Exam_Score > 70 then 1 end) as Long_sleep_hours,
  round(count(case when Sleep_Hours >= 4 and Sleep_Hours < 7 and Exam_Score > 70
then 1 end) /
  count(case when Sleep_Hours >= 4 and Sleep_Hours < 7 then 1 end) * 100, 2) as
Percentage_short,
  round(count(case when Sleep_Hours > 6 and Exam_Score > 70 then 1 end) /
  count(case when Sleep_Hours > 6 then 1 end) * 100, 2) as Percentage_long
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Tutoring sessions */
select
  count(case when Tutoring_Sessions >= 0 and Tutoring_Sessions < 3 then 1 end) as
Low_tutoring_sessions,
  count(case when Tutoring_Sessions > 2 and Tutoring_Sessions < 6 then 1 end) as
Moderate_tutoring_sessions,
  count(case when Tutoring_Sessions > 5 then 1 end) as High_tutoring_sessions
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* How tutoring sessions impacted students scores */
```

```
select
  count(case when Tutoring_Sessions >= 0 and Tutoring_Sessions < 3 and Exam_Score > 70
then 1 end) as Low_tutoring_sessions,
  count(case when Tutoring_Sessions > 2 and Tutoring_Sessions < 6 and Exam_Score > 70
then 1 end) as Moderate_tutoring_sessions,
  count(case when Tutoring_Sessions > 5 and Exam_Score > 70 then 1 end) as
High_tutoring_sessions,
  round(count(case when Tutoring_Sessions >= 0 and Tutoring_Sessions < 3 and
Exam_Score > 70 then 1 end) /
  count(case when Tutoring_Sessions >= 0 and Tutoring_Sessions < 3 then 1 end) * 100, 2)
as Percentage_low,
  round(count(case when Tutoring_Sessions > 2 and Tutoring_Sessions < 6 and Exam_Score
> 70 then 1 end) /
  count(case when Tutoring_Sessions > 2 and Tutoring_Sessions < 6 then 1 end) * 100, 2) as
Percentage_moderate,
  round(count(case when Tutoring_Sessions > 5 and Exam_Score > 70 then 1 end) /
  count(case when Tutoring_Sessions > 5 then 1 end) * 100, 2) as Percentage_high
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* Physical activity */
```

```
select
  count(case when Physical_Activity >= 0 and Physical_Activity < 3 then 1 end) as Low,
  count(case when Physical_Activity > 2 and Physical_Activity < 5 then 1 end) as Moderate,
  count(case when Physical_Activity > 4 then 1 end) as High
from cryptic-yen-416713.Students_Performance.StudentsPerformances;

/* How students scores were affected by physical activity */
select
  count(case when Physical_Activity >= 0 and Physical_Activity < 3 and Exam_Score > 70
then 1 end) as Low,
  count(case when Physical_Activity > 2 and Physical_Activity < 5 and Exam_Score > 70
then 1 end) as Moderate,
  count(case when Physical_Activity > 4 and Exam_Score > 70 then 1 end) as High,
  round(count(case when Physical_Activity >= 0 and Physical_Activity < 3 and Exam_Score
> 70 then 1 end) /
  count(case when Physical_Activity >= 0 and Physical_Activity < 3 then 1 end) * 100, 2) as
Percentage_low,
  round(count(case when Physical_Activity > 2 and Physical_Activity < 5 and Exam_Score
> 70 then 1 end) /
```

```
  count(case when Physical_Activity > 2 and Physical_Activity < 5 then 1 end) * 100, 2) as
Percentage_moderate,
  round(count(case when Physical_Activity > 4 and Exam_Score > 70 then 1 end) /
  count(case when Physical_Activity > 4 then 1 end) * 100, 2) as Percentage_high
from cryptic-yen-416713.Students_Performance.StudentsPerformances;
```