**QUESTION\_SET\_2**

**Write a query for the following**

1. **List of students’ secured marks average of Tamil + English greater than 85**

**QUERY** **:** SELECT Stud\_name , (Tamil+English+Science+Maths+Social)/5 Avg\_Marks

FROM Stud\_Srini WHERE (Tamil+English) /2 >= 85;

**OUTPUT**

STUD\_NAME AVG\_MARKS

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ANAND 95

VIDYASAGAR 91.5

SAHISH 94

MOHAN 99

THANISH 94

SANA 95

SHALINI 93.5

PRIYADARSHINI 99

AHMED 99.5

SHARMILA 94.5

SUGUNA 93

1. **List of students secured {Tamil greater than 90 or English greater than 75} and maths less than 75**

SELECT Stud\_name FROM Stud\_Srini WHERE Tamil > 90 OR English > 75 AND

Maths < 75 ORDER BY Stud\_name ;

**OUTPUT**

no rows selected

1. **Average five subjects total and print the results as follows**

* **Greater than 90 “First Class with Distinction”**
* **Between 60 to 90 “First Class”**
* **Less than 60 “ Second Class”**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Reg No | Student Name | Total | Average | Class |
| 1001 | Anand | 481 | 96.2 | First Class with Distinction |
| 1002 | Vidyasagar | 433 | 86.6 | First Class |
| 1012 | Parvathi | 282 | 56.4 | Second Class |

**QUERY**

SELECT Reg\_no,

Stud\_name,

(Tamil+English+Maths+Science+Social)TOTAL,

((Tamil+English+Maths+Science+Social)/5)AVERAGE,

CASE

WHEN (Tamil+English+Maths+Science+Social) BETWEEN 450 AND 500 THEN 'First Class with distinction'

WHEN (Tamil+English+Maths+Science+Social) BETWEEN 380 AND 450 THEN 'First Class'

ELSE 'Second Class'

END

FROM STUD\_SRINI;

**OUTPUT**

R\_NO S\_NO TOTAL AVERAGE GRADE

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1001 ANAND 481 96.2 First Class with distinction

1002 VIDYASAGAR 446 89.2 First Class

1003 SAHISH 458 91.6 First Class with distinction

1004 MOHAN 471 94.2 First Class with distinction

1005 THANISH 465 93 First Class with distinction

1006 SANA 488 97.6 First Class with distinction

1007 SHALINI 485 97 First Class with distinction

1008 PRIYADARSHINI 497 99.4 First Class with distinction

1009 AHMED 496 99.2 First Class with distinction

1010 SHARMILA 473 94.6 First Class with distinction

1011 SUGUNA 462 92.4 First Class with distinction

1012 PARVATHI 282 56.4 Second Class

1013 SARAVANAN 379 75.8 Second Class

1. **Write a query to have the following output**

|  |  |  |  |
| --- | --- | --- | --- |
| Percentage | Male | Female | Total |
| Above 90% | 3 | 5 | 8 |
| 60-90% | 4 | 0 | 4 |
| Less Than 60% | 0 | 1 | 1 |

**QUERY**

SELECT

CASE

WHEN AVG(Tamil+English+Maths+Science+Social)/5 > 90 THEN 'Above 90%'

WHEN AVG(Tamil+English+Maths+Science+Social)/5 BETWEEN 60 AND 90 THEN '60-90%'

WHEN AVG(Tamil+English+Maths+Science+Social)/5 < 60 THEN 'Less Than 60%'

ELSE 'Last Class' END

COUNT(DECODE(SEX,'Male',1,NULL)) Male,

COUNT(DECODE(SEX,'Female',1,NULL)) Female,

COUNT(SEX) Total

FROM Stud\_Srini

GROUP BY CASE WHEN (Tamil+English+Maths+Science+Social)/5 > 90 THEN 'Above 90%'

WHEN (Tamil+English+Maths+Science+Social)/5 BETWEEN 60 AND 90 THEN '60-90%'

WHEN (Tamil+English+Maths+Science+Social)/5 < 60 THEN 'Less Than 60%' ELSE 'Last Class'

END;

**OUTPUT**

OVERALL\_PERT MALE FEMALE TOTAL

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Above 90% 0 0 10

60-90% 0 0 2

Less Than 60% 0 0 1

1. **Write a query to have the following output**

**List of students who secured centum subject wise**

**Subject No. of Student**

Tamil 1

English 1

Science 3

Maths 4

Social Science 2

**QUERY : USING DECODE FUNCTION**

SELECT COUNT(DECODE(Tamil,100,1,NULL)) AS Tamil,

COUNT(DECODE(English,100,1,NULL)) AS English,

COUNT(DECODE(Science,100,1,NULL)) AS Science,

COUNT(DECODE(Maths,100,1,NULL)) AS Maths,

COUNT(DECODE(Social,100,1,NULL)) AS Social

FROM Stud\_srini;

**OUTPUT**

**TAMIL ENGLISH SCIENCE MATHS SOCIAL**

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**2 2 3 4 2**

**QUERY : USING CASE**

SELECT CASE when TAMIL IS NOT NULL then 'Tamil' end "Subject" ,

COUNT(DECODE(TAMIL,100,1)) "Student\_Count" FROM

STUD\_SRINI GROUP BY TAMIL HAVING COUNT(DECODE(TAMIL,100,1)) > 0

UNION ALL

SELECT CASE when ENGLISH IS NOT NULL then 'English' end "Subject",

COUNT(DECODE(ENGLISH,100,1)) "Student\_Count" FROM

STUD\_SRINI GROUP BY ENGLISH HAVING COUNT(DECODE(ENGLISH,100,1)) > 0

UNION ALL

SELECT CASE when MATHS IS NOT NULL then 'Maths' end "Subject",

COUNT(DECODE(MATHS,100,1)) "Student\_Count" FROM

STUD\_SRINI GROUP BY MATHS HAVING COUNT(DECODE(MATHS,100,1)) > 0

UNION ALL

SELECT CASE when SCIENCE IS NOT NULL then 'Science' end "Subject",

COUNT(DECODE(SCIENCE,100,1)) "Student\_Count" FROM

STUD\_SRINI GROUP BY SCIENCE HAVING COUNT(DECODE(SCIENCE,100,1)) > 0

UNION ALL

SELECT CASE when SOCIAL IS NOT NULL then 'Social' end "Subject",

COUNT(DECODE(SOCIAL,100,1))"Student\_Count" FROM

STUD\_SRINI GROUP BY SOCIAL HAVING COUNT(DECODE(SOCIAL,100,1)) > 0;

**OUTPUT**

Subject Student\_Count

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Tamil 2

English 2

Maths 4

Science 3

Social 2