Database Functions

DAVE(database,offset,crit)

or DAVERAGE(database,offset,crit)

Takes the average of numeric records that match criteria.

This is a sample database:

- A B C D
- 1 NAME GRADE GPA GRADE
- 2 Joe B 3.2 B
- 3 Sue A 4.7
- 4 Robert C 2.7
- 5 Steve A 4.5
- 6 Ann B 4.2

The database range is A1:C6. The criteria range is D1:D2.

To calculate the average GPA of everyone who earned a B use this formula:

DAVE(A1:C6,2,D1:D2) = 3.7

DCOUNT(database,offset,crit)

Counts all the numeric items matching criteria in the column offset from the upper left corner of the database range.

This is a sample database:

- A B C D 1 NAME GRADE GPA GRADE
- 2 Joe B 3.2 B
- 3 Sue A 4.7
- 4 Robert C 2.7
- 5 Steve A 4.5
- 6 Ann B 4.2

The database range is A1:C6. The criteria range is D1:D2.

To count the number of students who earned B's use this formula:

DCOUNT(A1:C6,1,D1:D2) = 2

DMAX(database,offset,crit)

Returns the maximum numeric value of the records in database that match criteria.

- This is a sample database:
 - A B C D
- 1 NAME SALES REGION REGION
- 2 Joe 3000EastEast
- 3 Sue 4500North
- 4 Robert 2800 East

5 Steve 3700 South

6 Ann 2400West

The database range is A1:C6. The criteria range is D1:D2.

To find the largest sales figure in the Eastern region use this formula:

DMAX(A1:C6,1,D1:D2) = 3000

DMIN(database,offset,crit)

Returns the smallest numeric item in the records that match the criteria. This is a sample database:

- ABCD
- 1 NAME SALES REGION REGION
- 2 Joe 3000EastEast
- 3 Sue 4500North
- 4 Robert 2800 East
- 5 Steve 3700 South
- 6 Ann 2400West

The database range is A1:C6. The criteria range is D1:D2.

To find the smallest sales figure in the Eastern region use this formula:

DMIN(A1:C6,1,D1:D2) = 2800

DSTDDEV(database,offset,crit) or DSTDEV(database,offset,crit)

Returns the standard deviation of the numeric records that match the criteria. This is a sample database:

Α В С D STATE **REGION AVG RF REGION** 1 2 AL South 3.7 West 3 CA West 2.1 NJ East 5.2 4 5 South FL 4.9 6 LA South 6.8 7 TX West 5.0 8 MA North 7.6 9 ΑZ West 2.2 NV West 10 2.4

The database range is A1:C10. The criteria range is D1:D2.

To find the standard deviation of rainfall in the Western region use this formula:

DSTDEV(A1:C10,2,D1:D2) = 1.2029

DSUM(database,offset,crit)

Sums all the items matching criteria in the column offset from the upper left corner of the database range. This is a sample database:

С А В D STATE **REGION AVG RF REGION** 1 2 AL South 3.7 West 3 CA West 2.1 4 NJ East 5.2 5 FL South 4.9 6 LA South 6.8 7 TX West 5.0 8 MA North 7.6 9 AZ West 2.2 10 NV West 2.4

The database range is A1:C10. The criteria range is D1:D2.

To find the total amount of rainfall for the Southern region use this formula:

DSUM(A1:C10,2,D1:D2) = 15.4

DVAR(database,offset,crit)

Returns the variance of the numeric records that match the criteria. This is a sample database:

В С D А STATE 1 **REGION AVG RF REGION** 2 AL South South 3.7 3 CA West 2.1 West 4 NJ East 5.2 5 FL South 4.9 6 LA South 6.8 7 TX West 5.0 8 MA North 7.6 9 ΑZ 2.2 West 10 NV West 2.4

The database range is A1:C10. The criteria range is D1:D2.

To find the variance of rainfall in the Southern and Western regions use this formula:

DVAR(A1:C10,2,D1:D3) = 2.7192