Aggregate Functions

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to specify mathematical aggregate functions on collections of values from the database.

Examples of such functions include retrieving the average or total salary of all employees or the total number of employee tuples.

These functions are used in simple statistical queries that summarize information from the database tuples.

Common functions applied to collections of numeric values include SUM, AVERAGE, MAXIMUM, and MINIMUM. The COUNT function is used for counting tuples or values.

Student

Sname	RollNo	ClassName	Admn No	Age	Mark	Family Income(L)
Anwar	48	C4b	9875	18	34	7
Deon	22	c4A	8469	18	49	6
Gautham	19	C4b	9854	20	45	8
Jabira	33	c4A	7894	19	48	5

<grouping attributes> \Im <function list> (R)

Example 1:

• $\rho_{R(Classname, No_of_students, Average_mark)}$ (Classname $\mathfrak{T}_{COUNT \, AdmnNo, \, AVERAGE \, Mark}$ (Student))

Classname	No_of_student	Average Mark
c4A	2	48.5
C4b	2	39.5

Example 2:

(Classname 3 COUNT AdmnNo, AVERAGE Mark (Student))

Classname	Count_Admnno	Average Mark
c4A	2	48.5
C4b	2	39.5

Example 3:

ℑ COUNT AdmnNo, AVERAGE Mark (Student)

Count_Admnno	Average Mark
4	44