

simulation	
♦id	INTEGER
•title	TEXT
•n_stars	INTEGER
•plummer_radius	REAL
•dt	REAL
•n_timesteps	INTEGER
•outputTimestep	INTEGER
•softening	REAL
•precision	REAL
•offsetX	REAL
•offsetY	REAL
•offsetZ	REAL
•angle	REAL
•distance	REAL
•focusX	REAL
•focusY	REAL
•focusZ	REAL
•viewPointX	REAL
•viewPointY	REAL
•viewPointZ	REAL
•bMcLuster	INTEGER
•mcluster_filepath	TEXT
•eps magnitude	REAL

powerLaw	
♦id_simulation	INTEGER
♦position	INTEGER
◦massLimit	REAL
◦exponent	REAL

star	
♦id	INTEGER
•id_simulation	INTEGER
◦mass	REAL
◦magnitude	REAL
•isCluster	INTEGER
•isObserved	INTEGER
◦fkStar	INTEGER
◦idCluster	INTEGER
◦extinction	REAL

timeStepAnalysis	
♦id_simulation	INTEGER
♦dt	INTEGER
◦kinE	REAL
◦potE	REAL
◦totE	REAL
◦avgVel3DCluster	REAL
◦avgVel2DCluster	REAL
◦avgVel3DFS	REAL
◦avgVel2DFS	REAL
◦disp3DCluster	REAL
◦disp2DCluster	REAL
◦disp3DFS	REAL
◦disp2DFS	REAL

velocity	
♦id	INTEGER
•id_star	INTEGER
◦x	REAL
◦y	REAL
◦z	REAL
◦rH	REAL
◦aHTP	REAL
◦dHTP	REAL
•timestep	INTEGER

position	
♦id	INTEGER
•id_star	INTEGER
◦x	REAL
◦y	REAL
◦z	REAL
◦rH	REAL
◦aHTP	REAL
◦dHTP	REAL
•timestep	INTEGER

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