

Table	Spec
algorithm	<pre>CREATE TABLE `algorithm` (`id` varchar(36) NOT NULL, `name` varchar(100) NOT NULL, `description` varchar(255) NOT NULL, `classification_id` varchar(36) NOT NULL, `author_id` varchar(36) NOT NULL, PRIMARY KEY (`id`), KEY `algorithm_classification_id_fk` (`classification_id`), CONSTRAINT `algorithm_classification_id_fk` FOREIGN KEY (`classification_id`) REFERENCES `classification` (`id`)) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci</pre>
benchmark	<pre>CREATE TABLE `benchmark` (`id` varchar(36) NOT NULL, `memory` int NOT NULL, `cpu_name` varchar(100) NOT NULL, `cpu_threads` int NOT NULL, `cpu_cores` int NOT NULL, `cpu_l1_cache` int NOT NULL, `cpu_l2_cache` int NOT NULL, `cpu_l3_cache` int NOT NULL, `execution_date` date NOT NULL, `execution_time` double NOT NULL, `memory_usage` double NOT NULL, `implementation_id` varchar(36) NOT NULL, `problem_instance_id` varchar(36) NOT NULL, PRIMARY KEY (`id`), KEY `benchmark_implementation_id_fk` (`implementation_id`), KEY `benchmark_problem_instance_id_fk` (`problem_instance_id`), CONSTRAINT `benchmark_implementation_id_fk` FOREIGN KEY (`implementation_id`) REFERENCES `implementation` (`id`), CONSTRAINT `benchmark_problem_instance_id_fk` FOREIGN KEY (`problem_instance_id`) REFERENCES `problem_instance` (`id`)) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci</pre>
classification	<pre>CREATE TABLE `classification` (`id` varchar(36) NOT NULL, `name` varchar(100) NOT NULL, `parent_id` varchar(36) DEFAULT NULL, `author_id` varchar(36) NOT NULL, PRIMARY KEY (`id`), KEY `classification_parent_id_fk` (`parent_id`), CONSTRAINT `classification_parent_id_fk` FOREIGN KEY (`parent_id`) REFERENCES `classification` (`id`)) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci</pre>
implementation	<pre>CREATE TABLE `implementation` (`id` varchar(36) NOT NULL, `name` varchar(100) NOT NULL, `filename` varchar(255) NOT NULL, `algorithm_id` varchar(36) NOT NULL, `author_id` varchar(36) NOT NULL, PRIMARY KEY (`id`), KEY `implementation_algorithm_id_fk` (`algorithm_id`), CONSTRAINT `implementation_algorithm_id_fk` FOREIGN KEY (`algorithm_id`) REFERENCES `algorithm` (`id`)) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci</pre>
problem_instance	<pre>CREATE TABLE `problem_instance` (`id` varchar(36) NOT NULL, `dataset_filename` varchar(255) NOT NULL, `dataset_size` int NOT NULL, `problem_type` varchar(100) NOT NULL, `implementation_id` varchar(36) CHARACTER SET utf8mb4 COLLATE utf8mb4_0900_ai_ci NOT NULL, `author_id` varchar(36) NOT NULL, PRIMARY KEY (`id`), KEY `problem_instance_implementation_id_fk` (`implementation_id`) USING BTREE, CONSTRAINT `problem_instance_implementation_id_fk` FOREIGN KEY (`implementation_id`) REFERENCES `implementation` (`id`) ON DELETE RESTRICT ON UPDATE RESTRICT) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_0900_ai_ci</pre>