[CREATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html" \t "mysql_doc) [TABLE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) `derby\_dash`.`daly` ( `run\_date` [DATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-types.html) [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) [CURRENT\_TIMESTAMP](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-functions.html#function_current_timestamp) , `max\_time` [DECIMAL](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)((4,2)) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL , `min\_time` [DECIMAL](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)((4,2)) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL , `run\_success` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL , `run\_unsuccess` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL , `total\_run` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL ) ENGINE = InnoDB;

[CREATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-procedure.html) [PROCEDURE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-procedure.html) `daily\_procedure`() [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) DETERMINISTIC NO SQL SQL SECURITY DEFINER BEGIN [INSERT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/insert.html) INTO daily(max\_time, min\_time, run\_success, run\_unsuccess, total\_run) [SELECT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) [MAX](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_max)(total\_time) as max\_time, [MIN](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_min)(total\_time) as min\_time, [SUM](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_sum)([CASE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/control-flow-functions.html#operator_case) WHEN sensor\_3=1 THEN 1 ELSE 0 END) as run\_success, [SUM](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_sum)([CASE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/control-flow-functions.html#operator_case) WHEN sensor\_3=0 THEN 1 ELSE 0 END) as run\_unsuccess, [COUNT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_count)(sensor\_2) as total\_run FROM runs WHERE [date](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-types.html)([timestamp](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-types.html)) > [CURRENT\_DATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-functions.html#function_current_date)-1; END

[CREATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) `derby\_dash`.`monthl` ( `month\_val` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `year\_val` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `max\_time` [DECIMAL](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)((4,2)) [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `min\_time` [DECIMAL](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)((4,2)) [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `run\_success` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `run\_unsuccess` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `total\_run` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL ) ENGINE = InnoDB;

[CREATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) [TABLE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-table.html) `derby\_dash`.`run` ( `id` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL , `timestamp` [DATETIME](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-types.html) [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) [CURRENT\_TIMESTAMP](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-functions.html#function_current_timestamp) , `acceleration` [DECIMAL](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)((4,2)) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL , `track` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL , `sensor\_2` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL , `sensor\_3` [INT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL , `total\_time` [DECIMAL](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/numeric-types.html)((4,2)) NULL [DEFAULT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/miscellaneous-functions.html#function_default) NULL ) ENGINE = InnoDB;

[CREATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-procedure.html) [PROCEDURE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-procedure.html) `fake`() [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) DETERMINISTIC NO SQL SQL SECURITY DEFINER BEGIN [IF](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/control-flow-functions.html#function_if) [CURRENT\_DATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-functions.html#function_current_date)=last\_day(curdate()) THEN [INSERT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/insert.html) INTO monthly(month\_val, year\_val, max\_time, min\_time, run\_success, run\_unsuccess, total\_run) [SELECT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) EXTRACT(MONTH FROM run\_date) as month\_val,EXTRACT([YEAR](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-types.html) FROM run\_date) as year\_val, [MAX](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_max)(max\_time) as max\_time, [MIN](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_min)(min\_time) as min\_time, [SUM](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_sum)(run\_success) as run\_success, [SUM](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_sum)(run\_unsuccess) as run\_unsuccess, [SUM](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/group-by-functions.html#function_sum)(total\_run) as total\_run FROM daily WHERE MONTH([CURRENT\_DATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-functions.html#function_current_date)) > MONTH([CURRENT\_DATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/date-and-time-functions.html#function_current_date))-1; END [IF](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/control-flow-functions.html#function_if); END

[CREATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-procedure.html) [PROCEDURE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-procedure.html) `fake`() [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) DETERMINISTIC NO SQL SQL SECURITY DEFINER BEGIN [INSERT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/insert.html) INTO runs(acceleration, track, sensor\_2, sensor\_3, total\_time) [SELECT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/select.html) (RAND()\*(4-1+1))+1 as acceleration, ROUND(RAND())+1 as track, ROUND(RAND()) as sensor\_2, ROUND(RAND()) as sensor\_3, (RAND()\*(7-4+1))+4 as total\_time; END

[CREATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-event.html) [EVENT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-event.html) `fake` ON SCHEDULE EVERY 1 DAY STARTS '2022-03-31 00:16:00.000000' ON COMPLETION [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) PRESERVE ENABLE [DO](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/do.html) [CALL](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/call.html) daily\_procedure()

[CREATE](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-event.html) [EVENT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/create-event.html) `fake` ON SCHEDULE EVERY 2 HOUR STARTS '2022-03-29 00:14:00.000000' ON COMPLETION [NOT](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/logical-operators.html#operator_not) PRESERVE ENABLE [DO](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/do.html) [CALL](http://134.122.124.185/phpmyadmin/url.php?url=https://dev.mysql.com/doc/refman/5.5/en/call.html) fakedata()

CREATE DATABASE ‘derby\_dash’

CREATE TABLE `derby\_dash`.`runs` ( `id` INT NOT NULL , `timestamp` DATETIME NOT NULL DEFAULT CURRENT\_TIMESTAMP , `acceleration` DECIMAL((4,2)) NULL DEFAULT NULL , `track` INT NULL DEFAULT NULL , `sensor\_2` INT NULL DEFAULT NULL , `sensor\_3` INT NULL DEFAULT NULL , `total\_time` DECIMAL((4,2)) NULL DEFAULT NULL ) ENGINE = InnoDB;

CREATE TABLE `derby\_dash`.`daily` ( `run\_date` DATE NOT NULL DEFAULT CURRENT\_TIMESTAMP , `max\_time` DECIMAL((4,2)) NULL DEFAULT NULL , `min\_time` DECIMAL((4,2)) NULL DEFAULT NULL , `run\_success` INT NULL DEFAULT NULL , `run\_unsuccess` INT NULL DEFAULT NULL , `total\_run` INT NULL DEFAULT NULL ) ENGINE = InnoDB;

CREATE TABLE `derby\_dash`.`monthl` ( `month\_val` INT NOT NULL , `year\_val` INT NOT NULL , `max\_time` DECIMAL((4,2)) NOT NULL , `min\_time` DECIMAL((4,2)) NOT NULL , `run\_success` INT NOT NULL , `run\_unsuccess` INT NOT NULL , `total\_run` INT NOT NULL ) ENGINE = InnoDB;

CREATE PROCEDURE `daily\_procedure`() NOT DETERMINISTIC NO SQL SQL SECURITY DEFINER BEGIN

INSERT INTO daily(max\_time, min\_time, run\_success, run\_unsuccess, total\_run)

SELECT (SELECT MAX(CASE WHEN sensor\_3>0

then total\_time

else 0.0 END)) as max\_time,

(SELECT MIN(CASE WHEN sensor\_3>0

then total\_time

else 20 END)) as min\_time,

SUM(CASE WHEN sensor\_3=1

THEN 1

ELSE 0 END) as run\_success,

SUM(CASE WHEN sensor\_3=0

THEN 1

ELSE 0 END) as run\_unsuccess,

COUNT(sensor\_2) as total\_run

FROM runs

WHERE date(timestamp) = CURRENT\_DATE;

END

CREATE PROCEDURE `monthly\_procedure`() NOT DETERMINISTIC NO SQL SQL SECURITY DEFINER BEGIN IF CURRENT\_DATE=last\_day(curdate()) THEN INSERT INTO monthly(month\_val, year\_val, max\_time, min\_time, run\_success, run\_unsuccess, total\_run) SELECT EXTRACT(MONTH FROM run\_date) as month\_val,EXTRACT(YEAR FROM run\_date) as year\_val, MAX(max\_time) as max\_time, MIN(min\_time) as min\_time, SUM(run\_success) as run\_success, SUM(run\_unsuccess) as run\_unsuccess, SUM(total\_run) as total\_run FROM daily WHERE MONTH(CURRENT\_DATE) > MONTH(CURRENT\_DATE)-1; END IF; END;

CREATE PROCEDURE `fakedata`() NOT DETERMINISTIC NO SQL SQL SECURITY DEFINER BEGIN INSERT INTO runs(acceleration, track, sensor\_2, sensor\_3, total\_time) SELECT (RAND()\*(4-1+1))+1 as acceleration, ROUND(RAND())+1 as track, ROUND(RAND()) as sensor\_2, ROUND(RAND()) as sensor\_3, (RAND()\*(7-4+1))+4 as total\_time; END;

CREATE EVENT `daily\_update` ON SCHEDULE EVERY 1 DAY STARTS '2022-03-31 00:16:00.000000' ON COMPLETION NOT PRESERVE ENABLE DO CALL daily\_procedure();

CREATE EVENT `monthly\_update` ON SCHEDULE EVERY 1 DAY STARTS '2022-03-25 00:16:55.000000' ON COMPLETION NOT PRESERVE ENABLE DO CALL monthly\_procedure();

CREATE EVENT `fakedata\_input` ON SCHEDULE EVERY 2 HOUR STARTS '2022-03-29 00:14:00.000000' ON COMPLETION NOT PRESERVE ENABLE DO CALL fakedata()