CREATE DATABASE TaskManager ;

USE TaskManager;

CREATE TABLE users (

userid INT(11) NOT NULL,

name char(30) not null,

password char(30) not null,

primary key(userid),

UNIQUE KEY ‘userid’ (‘userid’)

) ;

CREATE TABLE tasks (

taskid INT NOT NULL,

userid INT,

category char(30),

title TEXT,

PRIMARY key(taskid),

UNIQUE KEY ‘taskid’ (‘taskid’),

KEY ‘userid’ (‘userid’),

CONSTRAINT ‘tasks\_users\_fk’ FOREIGN KEY (‘userid’) REFERENCES ‘users’ (‘userid’) ON DELETE NO ACTION ON UPDATE CASCADE ) ENGINE=InnoDB DEFAULT CHARSET=latin1 COMMENT=’Task Details’

);

CREATE TABLE elapsed (

elapsedid int(11) NOT NULL AUTO\_INCREMENT,

taskid INT NOT NULL,

milliseconds INT NOT NULL COMMENT ‘elapsed time’,

day DATE NOT NULL COMMENT ‘the day the elapsed time was accumulated on’,

PRIMARY key(elapsedid),

UNIQUE KEY ‘elapsedid’ (‘elapsedid’),

UNIQUE KEY ‘taskid\_day\_unique’ (‘taskid’, ‘day’ ),

KEY ‘taskid’ (‘taskid’) USING BTREE,

CONSTRAINT ‘elapsed\_task\_fk’ FOREIGN KEY (‘taskid’) REFERENCES ‘tasks’ (‘taskid’) ON DELETE NO ACTION ON UPDATE CASCADE ) ENGINE=InnoDB AUTO\_INCREMENT=5 DEFAULT CHARSET=latin1 COMMENT=”Keep track of how much time per day elapsed for a task’

);

SHOW TABLES;

SHOW COLUMNS FROM tasks;

INSERT INTO users (userid, name, password) VALUES ( 1, “jimladeroute”, “mypassword”);

INSERT INTO users (userid, name, password) VALUES ( 2, “ritaladeroute”, “mypassword”);

INSERT INTO tasks ( taskid, userid, category, title) VALUES ( 1, 1, “HOUSEHOLD”, “DISHES” );

INSERT INTO tasks ( taskid, userid, category, title) VALUES ( 2, 1, “HOUSEHOLD”, “CLEAN FLOORS” );

INSERT INTO elapsed ( taskid, milliseconds, day ) VALUES (1, 10000, NOW() ); -- YYYY-MM-DD

INSERT INTO elapsed ( taskid, milliseconds, day ) VALUES (1, 20000, NOW());

mysql> SELECT t.taskid, t.category, t.title, e.milliseconds FROM elapsed AS e, tasks AS t, users AS u

WHERE e.day='2017-03-11' AND u.userid=t.userid AND u.name='jimladeroute'

AND e.taskid=t.taskid ORDER by 1,2,3 ;