REL

User = {UsrName_hash, UsrPW_hash not null}
K = {{ UsrName(hash) }}

Task = {TaskID auto increment, UsrName_hash not null, Task, TaskNote, IsCompleted not null}
K = {{ TaskID }}
FK: TaskID → User{{ UsrName_hash }}

Data Type Specifications:

User
UsrName_hash   VARCHAR(255)
UsrPW_hash   VARCHAR(255)

Task
TaskID   INT
UsrName_hash   VARCHAR(255)
Task   BLOB(65535)
TaskNote   BLOB(65535)
IsCompleted   TINYINT(1)
DueTime   DATETIME

DB setup commands (mysql):

CREATE DATABASE t*odoApp*;

CREATE USER 'todoApp'@'localhost' IDENTIFIED BY 'PW_REDACTED';

GRANT CREATE, INSERT, UPDATE, DELETE, SELECT ON *todoApp*.* TO
'*todoApp*'@'*localhost*' WITH GRANT OPTION;

CREATE TABLE User (
    UsrName_hash VARCHAR(255) NOT NULL,
    UsrPW_hash VARCHAR(255) NOT NULL,
    PRIMARY KEY *(UsrName_hash),*
);

CREATE TABLE Task (
    TaskID INT NOT NULL *AUTO_INCREMENT,*
    UsrName_hash VARCHAR(255) NOT NULL,
    Task BLOB(65535),
    TaskNote BLOB(65535),
    IsCompleted TINYINT(1) NOT NULL,
    DueTime DATETIME,
    PRIMARY KEY *(TaskID),*
    FOREIGN KEY *(UsrName_hash)* REFERENCES *User(UsrName_hash)*
);