# Homework: Redis

This document defines the homework assignments from the "[Databases](https://softuni.bg/trainings/20/Databases-Feb-2015)" course at Software University. Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

## Design a Redis Database to Hold Ads and Authors

Your task is to design a Redis database to hold a list of ads, along with their authors.

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| **Title** | **Description** | **Location** | **Date** | **Author** |
| BMW 320 for Sale | BMW 320d, 2.0 diesel, 4 doors, automatic transmission. Year: 2007. Miles: 107,000. Price: 2400 EUR. | Sofia | 2014-12-26 12:37 | |  |  | | --- | --- | | Username | maria\_p | | Name | Maria Peneva | | Email | maria@gmail.com | | Phone | 0899 12 34 56 | |
| Job as Housekeeper | I am looking for a job as housekeeper. | Plovdiv | 2014-12-30 23:43 | |  |  | | --- | --- | | Username | steve | | Name | Steve Wilson | | Email | steve@yahoo.com | | Phone | 0800 77 553 452 | |
| 3 bed apartment to let | Very good. A must see. Price: 750 EUR. | Sofia | 2015-01-17 10:44 | |  |  | | --- | --- | | Username | maria\_p | | Name | Maria Peneva | | Email | maria@gmail.com | | Phone | 0899 12 34 56 | |
| Free MP3 Player | Free MP3 player, broken. | Rousse | 2014-11-28 21:15 | |  |  | | --- | --- | | Username | steve | | Name | Steve Wilson | | Email | steve@yahoo.com | | Phone | 0800 77 553 452 | |

Hints:

* Hold all author usernames in a set named "**authors:usernames**".
* Hold the properties for each author in a hash named "**authors:username**".
* Hold the ads count in a string named "**ads:count**".
* Hold the properties for each ad in hashes named "**ad:1**", "**ad:2**", "**ad:3**", …

Output: submit as output a **sequence of Redis commands** that store the above list of ads and authors. Example:

|  |
| --- |
| FLUSHALL  SADD authors:usernames maria\_p steve  HSET authors:maria\_p name "Maria Peneva"  HSET authors:maria\_p email "maria@gmail.com"  …  SET ads:count 4  HSET ad:1 title "BMW 320 for Sale"  HSET ad:1 location "Sofia"  …  HSET ad:2 title "Job as Housekeeper"  HSET ad:2 author\_username "steve"  … |