

# Database Systems Lab

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## SESSION 2

### Implementing non-indexed store and read

In this lab session, you will begin with a basic implementation of Personal Data Store (PDS). This version **does not use any index**.

#### Question:

You are given a partial implementation of PDS.

1. Implement `pds_open` by adding the following functionality:
  - a. Open the file
  - b. Store file pointer in a global struct
2. Implement `get_rec_by_key`:
  - a. Read record-record-by-record from data file
  - b. Compare key of the record with the given key
  - c. Return record if record is found
3. Implement `put_rec_by_key`:
  - a. Store the given record at the END of the data file
4. Implement `pds_close`
  - a. Close the repo file
  - b. Update file pointer and status in global struct

#### Output

- ✓ Use the following command for creating `contact_driver` executable:

```
gcc -o contact_driver pds.c contact_driver.c ./contact_driver
```

#### Submission

- a. Test your program thoroughly with the given driver program
- b. Upload only `pds.c` file to LMS