

# Database Systems Lab

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## SESSION 5

### Update Operation

In this lab session, you will implement the MODIFY operation to modify existing records in the data file.

### Main PDS functions

#### A) pds\_open

No change from Session 4

#### B) put\_rec\_by\_key

No change from Session 4

#### C) get\_rec\_by\_ndx\_key

No change from Session 4

#### D) pds\_close

No change from Session 4

#### E) get\_rec\_by\_non\_ndx\_key

No change from Session 4

#### F) modify\_rec\_by\_key

```
// modify_rec_by_ndx_key
// Search for index entry in BST
// Seek to the file location based on offset in index entry
// Write the key at the current data file location
// Write the record after writing the key
// In case of any error, return PDS_MODIFY_FAILED
int modify_rec_by_key( int key, void *rec );
```

### Testing

1. Use the contact loader program given to you for loading a large number of records into PDS.
2. Test your program with various functions with the help of modified pds\_tester.c given to you along with test case files given to you.

### Submission

- Upload the ONLY pds.c file to LMS