

PDS Application Development Report

Roll Number	IMT2019090
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Application Domain Name (Banking, Transport, etc.)	Movies Database
Date	October 10, 2021

Table Name: Movie

S. No	Attribute Name	Attribute Type
1	id	int
2	name	string
3	year	int
4	star_rating	float
5	genre	string
6	length	int

Testing Report

Test-Case-ID	Test Case Description	Expected Result	Actual Result	Test Result (PASS/FAIL)
TC-01	Inserting new record	SUCCESS	SUCCESS	PASS
TC-02	Inserting duplicate record	FAILURE	FAILURE	PASS
TC-03	Modify existing record	SUCCESS	SUCCESS	PASS
TC-04	Modify non-existing record	FAILURE	FAILURE	PASS
TC-05	Modify first record	SUCCESS	SUCCESS	PASS
TC-06	Modify last record	SUCCESS	SUCCESS	PASS
TC-07	Delete existing record	SUCCESS	SUCCESS	PASS
TC-08	Delete non-existing record	FAILURE	FAILURE	PASS
TC-09	Delete first record	SUCCESS	SUCCESS	PASS
TC-10	Delete last record	SUCCESS	SUCCESS	PASS
TC-11	1. Open an empty database 2. Insert ONE record 3. Delete the only record	SUCCESS	SUCCESS	PASS
TC-12	Retrieve existing record based on NDX field	SUCCESS	SUCCESS	PASS
TC-13	Retrieve non-existing record based on NDX field	FAILURE	FAILURE	PASS
TC-14	Retrieve existing record based on NON-NDX field	SUCCESS	SUCCESS	PASS
TC-15	Retrieve non-existing record based on NON-NDX field	FAILURE	FAILURE	PASS

TC-16	Exit and restart the application Retrieve existing record based on NDX field	SUCCESS	SUCCESS	PASS
TC-17	Exit and restart the application Retrieve non-existing record based on NDX field	FAILURE	FAILURE	PASS
TC-18	Exit and restart the application Retrieve existing record based on NON-NDX field	SUCCESS	SUCCESS	PASS
TC-19	Exit and restart the application Retrieve non-existing record based on NON-NDX field	FAILURE	FAILURE	PASS

Command to execute:

```
gcc -o movieDBManip bst.c movie.c pds.c movieDBManip.c
./movieDBManip
```