

Logic Specification Template

30/04/17

0.1

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**Control De Versiones**

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| Nombre Del Archivo | Versión | Fecha | Autor | Comentarios |
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**Table C72 Logic Specification Template**

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| --- | --- | --- | --- |
| Student | GVV | Date | 30/04/17 |
| Program | Cambios Maestros | Program # |  |
| Instructor | PEBM | Language | C |
| Object |  | Function |  |

INCLUDES:

#include <stdio.h>

#include<stdlib.h>  
#include<cstdlib>

#include<string.h>

#include “sqlite3.h”

TYPE DEFINITIONS:

|  |  |
| --- | --- |
| **Declaration:** | void query\_maestros() |
| **Reference:** | Functional template |
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| --- | --- |
| Logic reference numbers | Program logic, in pseudocode |
| 1 | char \*sql |
|  | char \*err |
|  | int rc |
|  | const char\* data = "Datos Maestro" |
|  | asigna a sql=”SELECT \* FROM MAESTROS WHERE Id\_Ma =’”\id\_maestro”’);”; |
|  | se asigna a rc=sqlite3\_exec(db, sql, callback, (void\*)data, &err); |
|  | si rc != SQLITE\_OK |
|  | printf(“SQL error: %s\n”,err); |
|  | sqlite3\_free(err); |
|  | si no |
|  | printf(“Valores ingresados correctamente\n”); |
|  | data = "Con las siguientes materias"; |
|  | asigna a sql=”SELECT \* FROM IMPARTE WHERE Id\_Maestro =’”\id\_maestro”’);”; |
|  | se asigna a rc=sqlite3\_exec(db, sql, callback, (void\*)data, &err); |
|  | si rc != SQLITE\_OK |
|  | printf(“SQL error: %s\n”,err); |
|  | sqlite3\_free(err); |
|  | si no |
|  | printf(“Valores ingresados correctamente\n”); |

TYPE DEFINITIONS:

|  |  |
| --- | --- |
| **Declaration:** | insert\_mtr() |
| **Reference:** | Functional template |
|  |  |

|  |  |
| --- | --- |
| Logic reference numbers | Program logic, in pseudocode |
| 1 | char \*sql |
|  | char \*err |
|  | int rc |
|  | asigna a sql=”INSERT INTO MAESTROS (Id\_Ma, Nombre, ApPaterno, ApMaterno, FNacimiento, Direccion, Telefono, Email) “ \ “VALUES (‘“ \id\_materia \ ”’,’” \ nombre \ ”’,’” \ ap\_paterno \ ”’,’” \ ap\_materno \ ”’,’” \ fecha\_nac \ ”’,’” \ direccion \ ”’,’” \ telefono \ ”’,’” \ email \ “‘);”; |
|  | se asigna a rc=sqlite3\_exec(db, sql, callback, 0, &err); |
|  | si rc != SQLITE\_OK |
|  | printf(“SQL error: %s\n”,err); |
|  | sqlite3\_free(err); |
|  | si no |
|  | printf(“Valores ingresados correctamente\n”); |

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| --- | --- |
| **Declaration:** | insert\_mtr\_plan |
| **Reference:** | Functional template |
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| --- | --- |
| Logic reference numbers | Program logic, in pseudocode |
| 1 | char \*sql |
|  | char \*err |
|  | asigna a sql=”INSERT INTO IMPARTE (ID\_Maestro, ID\_Materia, Status) “ \ “VALUES (‘“ \ id\_maestro ”’,’” \ id\_materia ”’,’” \ status “‘);”; |
|  | se asigna a rc=sqlite3\_exec(db, sql, callback, 0, &err); |
|  | si rc != SQLITE\_OK |
|  | printf(“SQL error: %s\n”,err); |
|  | sqlite3\_free(err); |
|  | si no |
|  | printf(“Valores ingresados correctamente\n”); |

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| --- | --- |
| **Declaration:** | Cambio\_maestro() |
| **Reference:** | Functional template |
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| --- | --- |
| Logic reference numbers | Program logic, in pseudocode |
| 1 | char \*sql |
|  | char \*err |
|  | int rc |
|  | leer id\_maestro |
|  | query\_maestros() |
|  | Selecciona que deseas cambiar |
|  | Leer opcion |
|  | Sí opción == 1 entonces :: insert\_mtr() |
|  | Si opción == 2 entonces :: insert\_mtr\_plan() |
|  | Si opción == 3 entonces :: no realizamos nada y sales al menú. |

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| --- | --- |
| **Declaration:** | Int\_callback () |
| **Reference:** | Functional template |
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| --- | --- |
| Logic reference numbers | Program logic, in pseudocode |
| 1 | int i |
|  | imprime en pantalla con printf( "%s:\n ", (const char\*)data); |
|  | para i=0 mientras i<argc en i++ |
|  | printf("%s = %s\n", azColName[i], argv[i] ? argv[i] : "NULL"); |
|  | printf(”\n”); |
|  | return 0; |

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| --- | --- |
| **Declaration:** | Int\_main () |
| **Reference:** | Functional template |
|  |  |
| **Logic reference numbers** | **Program logic, in pseudocode** |
| 1 | INICIO |
| 2 | Cambio\_maestro(); |
| 3 | System(“pause”); |
| 4 | Return 0; |
| 5 | FIN |