



Manual of Installation and Configuration for SMART-BUS Android Demo Free Version

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A. SMART-BUS android Demo free version And Official Professional version

we provide 2 types of SMART-BUS android version, one is demo free version, and another one is official professional version.

Android demo free version:

The demo free version is available from our website, Here is the link:

<http://www.smart-hdl.com/dealers-login.html>

After login, the path of files:

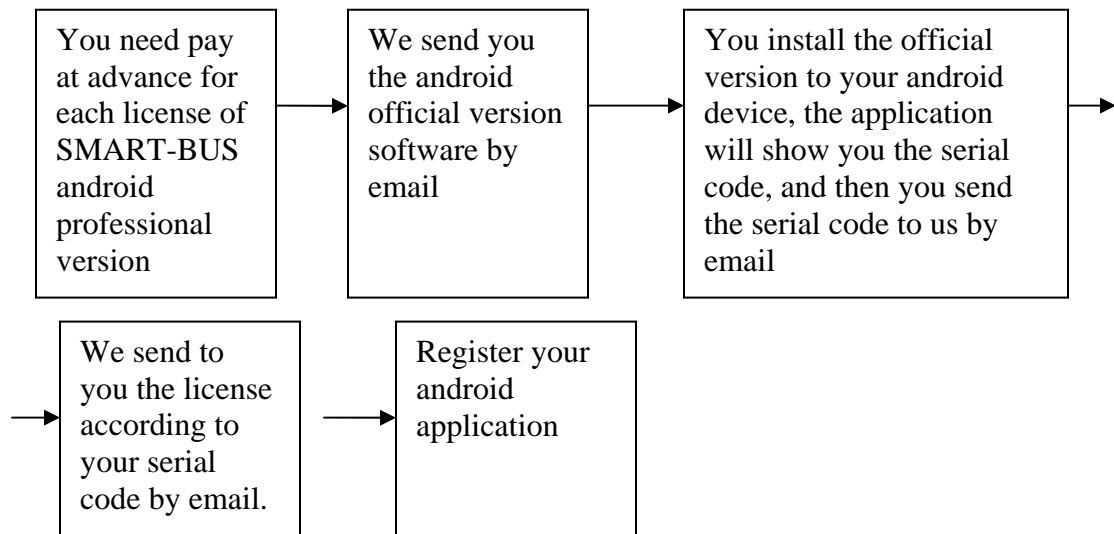
\Root\Smart-Bus\Softwares and Firmwares\Android Application\

The Demo free version has only one way control, you can control lighting, mood, HVAC, BOXEE media control.

Please know that the Demo free version do not have any upgrade version and improvement version.

The Official Professional Version:

The Official Professional Version need to be paid, to buy the official professional version, please see the procedure following:

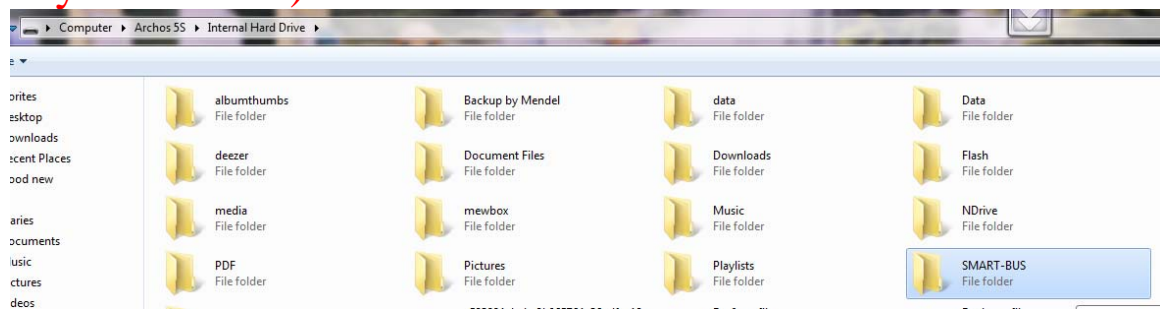


Once you buy the official professional version, you will get the free upgrade version and technical support.

B. Install android application to android device

Step1. please copies the folder "SMART-BUS" to the root directory of **external hard disk / SD card** on your android device.

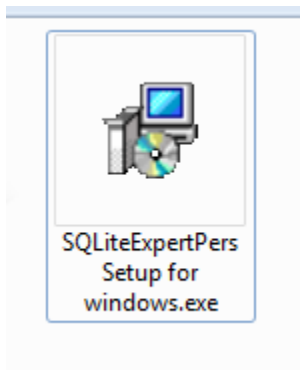
(Do not change the folder name, folder directory and any files name).



Step2. Go to "file manager" on your android device, Click the file "SMART-BUS.apk" and install it

Step3. After you have successfully installed it, you can see the icon "SMART-BUS Automation", run it.

C. Install windows software “SQLiteExpertPersSetup for windows.exe” on your computer so that you can modify the SQLite database



If you do not have this software “SQLiteExpertPersSetup for windows”, you can download it from following link:

<http://www.smart-hdl.com/dealers-login.html>

After login, the path of files:

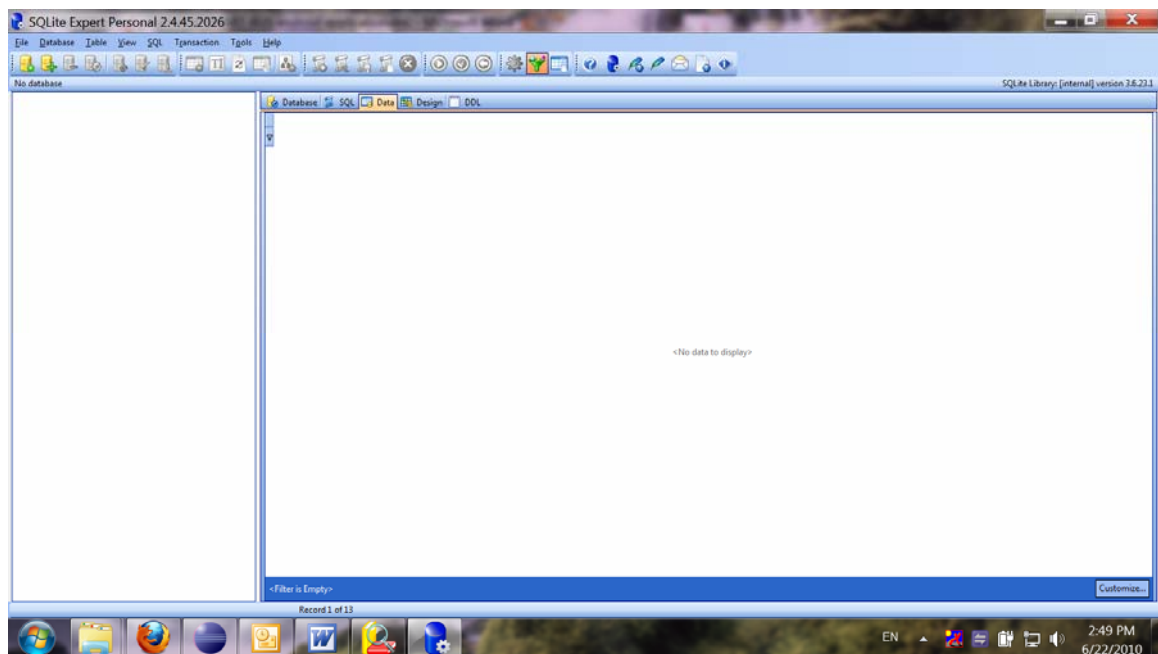
\Root\Smart-Bus\Softwares and Firmwares\Android Application\

We are using database SQLite to store the data on android, we need install the windows software “SQLiteExpertPersSetup for windows.exe” on your computer so that we can change the configurations.

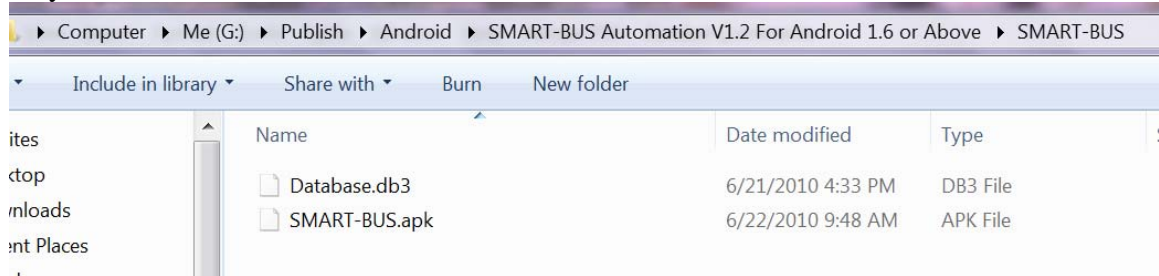
D. Open database “database.db3”

Before you make any modification, please backup database “Database.db3” which is under folder “SMART-BUS”

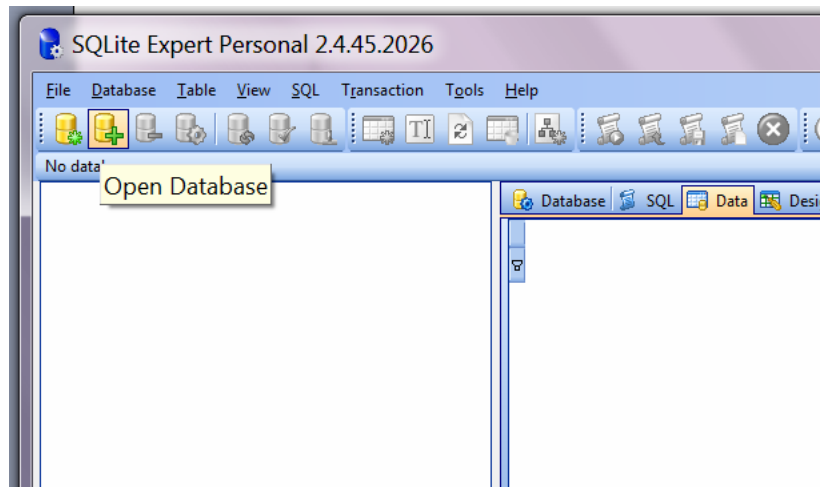
After you install the software “**SQLiteExpertPersSetup for windows.exe**”, run the

**software.**

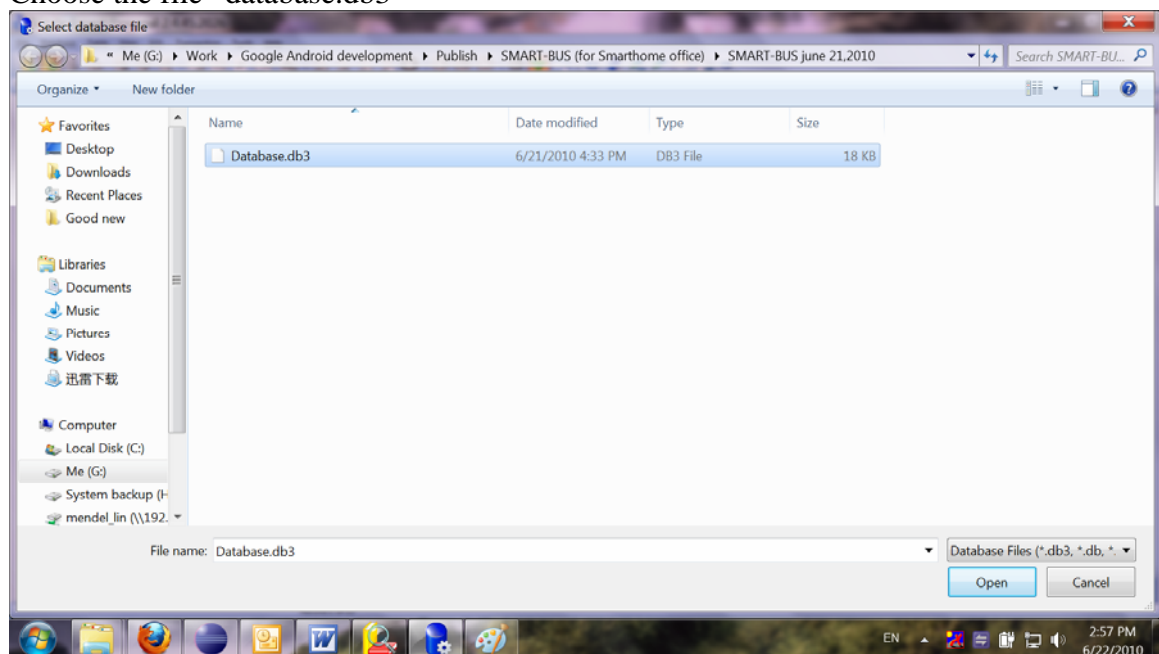
Open the our database “Database.db3”
you will find out database “Database.db3” under the folder “SMART-BUS”



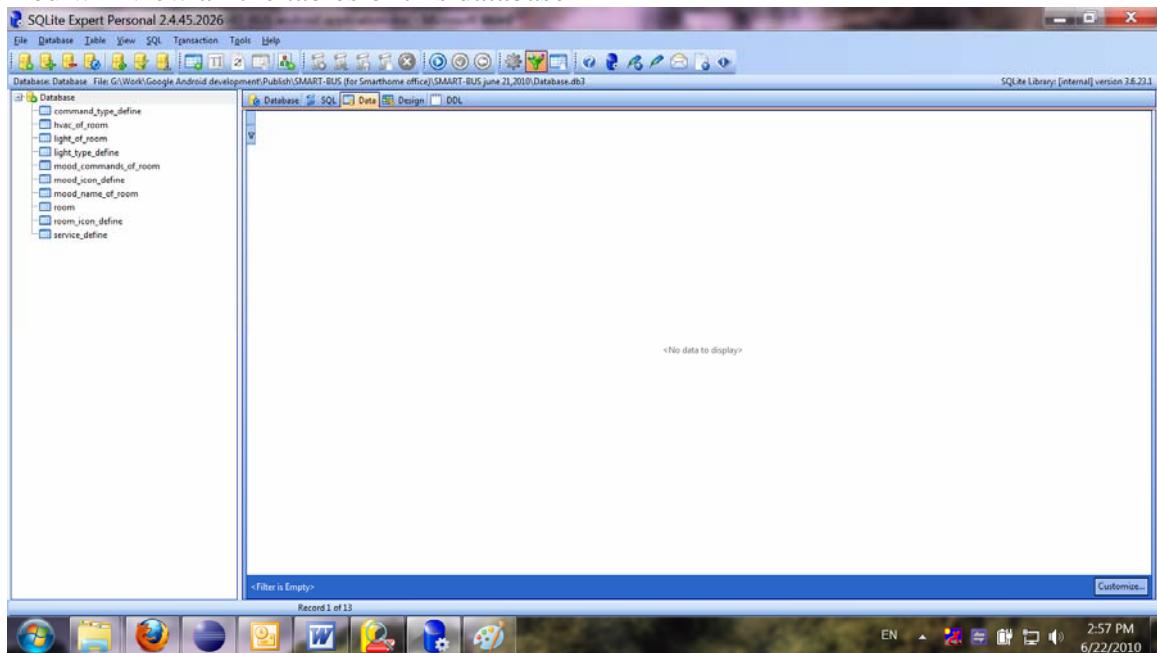
On the software “SQLite Expert Personal “, click the button “Open Database” on the toolbar



Choose the file “database.db3”



You will view all the tables of this database



From now on, you can start to make configuration.

E. Room Settings

before we make the configuration on the database, please do not change the structure of database.

For example:

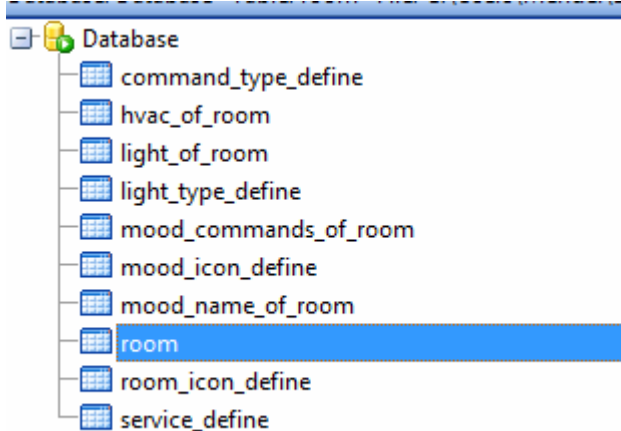
Do not delete any table

Do not change any table name

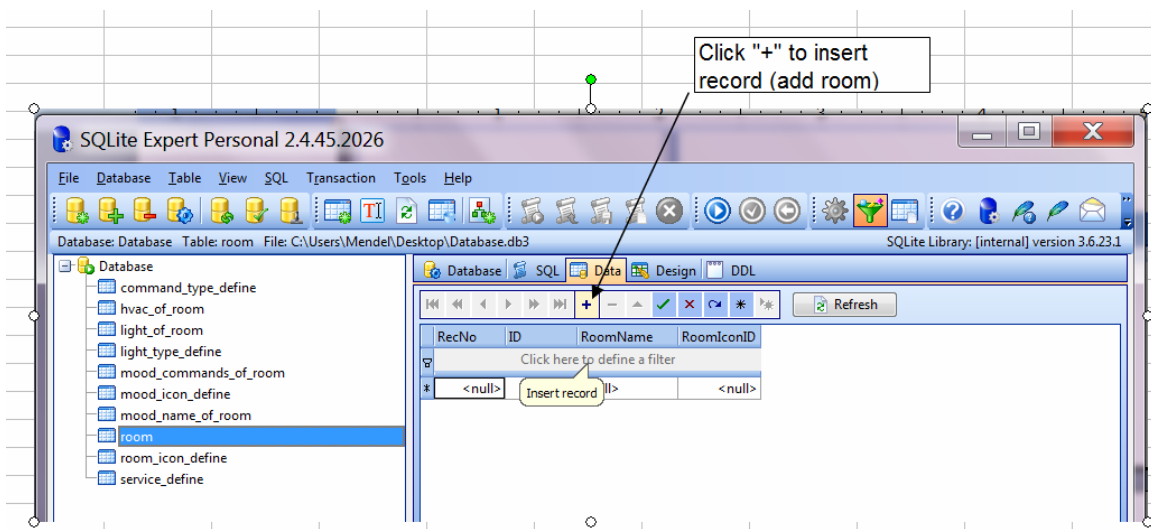
Do not add/change/delete any fields of tables

We just need add/edit/delete data on the tables.

We store the data of room to table “room”, Select the table “room” on the left side



Click “+” to insert record (add room),see below picture


















There are 3 fields of table “room”, they are ID , RoomName,RoomIconID.


Define of Table “room”

Field Name	Remark	Value
ID	This is room ID, it's very important for programming. It also will be use for other tables.	Number, Start from 1
RoomName	this is room name; it will be show on the room list of main page of android Application.	
RoomIconID	this field is for room icon, Please see the following define of RoomIconID	from 0 to 15

The define of RoomIconID

Define of RoomIconID

RoomIconID	Remark	Icon
0	Default icon	
1	Bed room	
2	Dining room	
3	Entrance	
4	Exhibition	
5	Family room	
6	GYM	
7	Guest room	
8	Kitchen	
9	Lobby	
10	Manager room	
11	Master bed room	
12	Meeting room	
13	Outside/garden	
14	Parking	

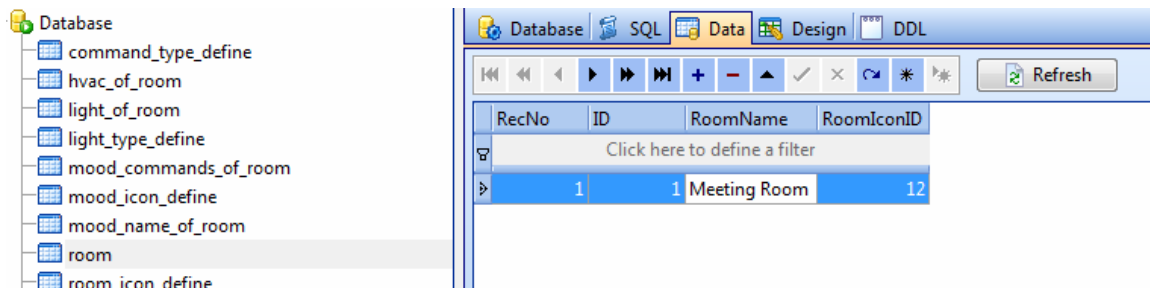
15	Stair	
----	-------	---

Add room

ID=1

RoomName=Meeting Room,

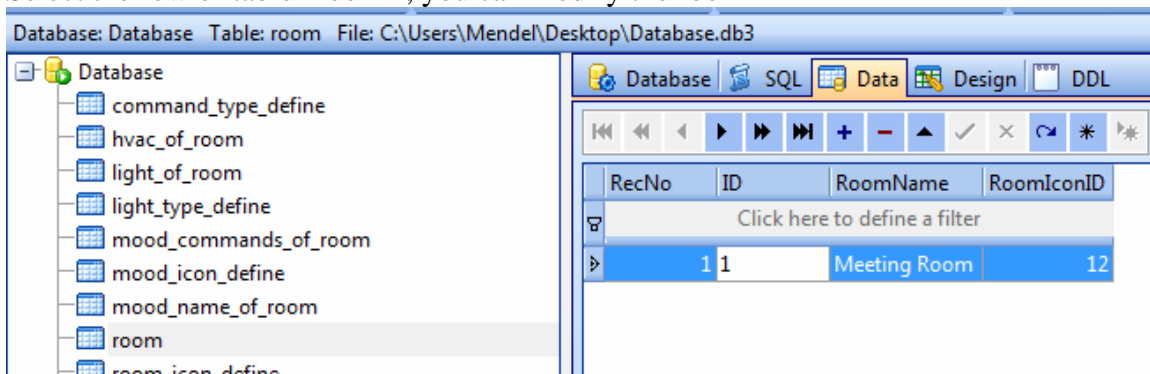
RoomIconID=12 (check the define “**RoomIconID**” above)



If you want to add more rooms, just do it the same as above.

Modify room

Select the row of table “room”, you can modify the room



Delete room

The screenshot shows a 'Data Editor' window with a toolbar and a table. The toolbar includes icons for navigation (back, forward, first, last, etc.) and a 'Refresh' button. The table has four columns: 'RecNo', 'ID', 'RoomName', and 'RoomIconID'. It contains two rows of data. A context menu is open over the second row, providing various editing options.

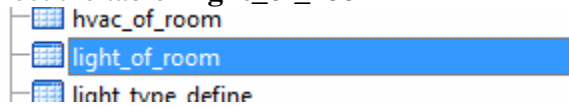
RecNo	ID	RoomName	RoomIconID
1	1	Meeting Room	12
2	2	df	1

Context Menu Options:

- Record Editor
- Text Editor
- Image Editor
- Hex Editor
- Set to NULL
- Switch to Cell select mode
- Set cells to value...
- Set cells to NULL
- Delete selected record**
- Select columns

F. Lighting settings of the room

Select the table “light_of_room”








The table “light_of_room” has 9 fields ,please see the define following:

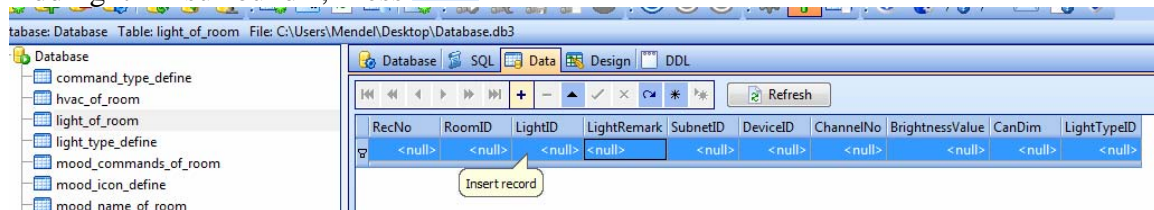
Table “light_of_room”

Field	Remark	Value
RoomID	You can know the RoomID from the table “room”. For example , the RoomID of meeting room is 1 which we have already added above	Start from 1
LightID	ID of light	Start from 1
LightRemark	Light remark	
SubnetID	SubnetID and DeviceID are the address of Dimmer of Relay	0-254
DeviceID	SubnetID and DeviceID are the address of Dimmer of Relay	0-254
ChannelNo	Channel no of light	0-254
BrightnessValue	This is the percentage of lighting brightness , 0-100	0-100
CanDim	0 or 1 (1: the light can be dimmed, 0 : the light can not be dimmed the light, only on/off)	0 or 1
LightTypeID	Light type icon define (please see the following define)	1-4

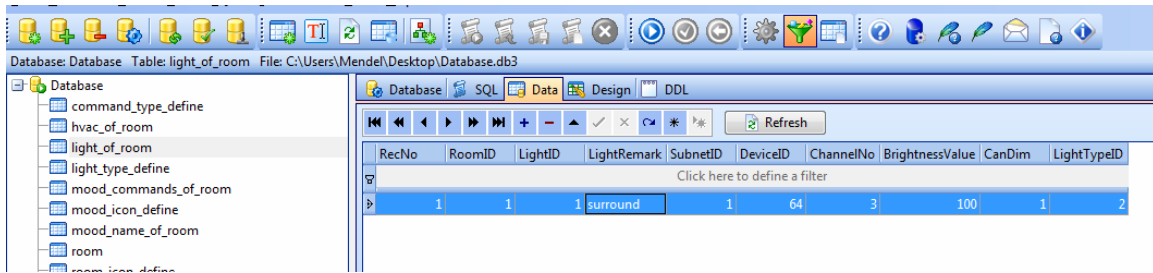
The define of LightTypeID

LightTypeID	Remark	Icon
1	incandescent light	
2	spot light	
3	fluorescent light	
4	chandelier light	

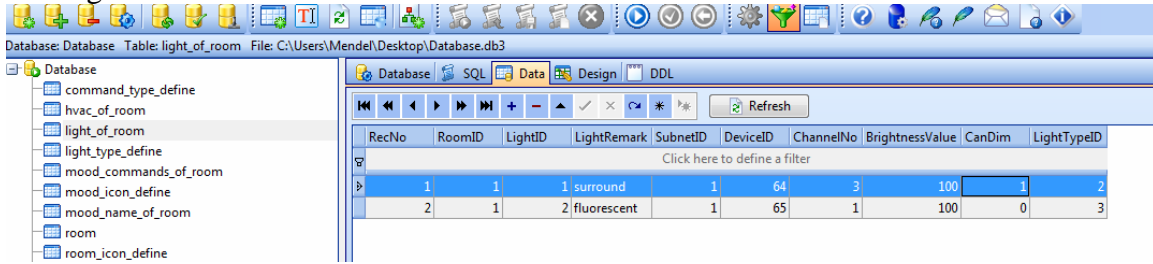
Add light 1 “surround” , Press 



Input data of light



Add light 2 “fluorescent”



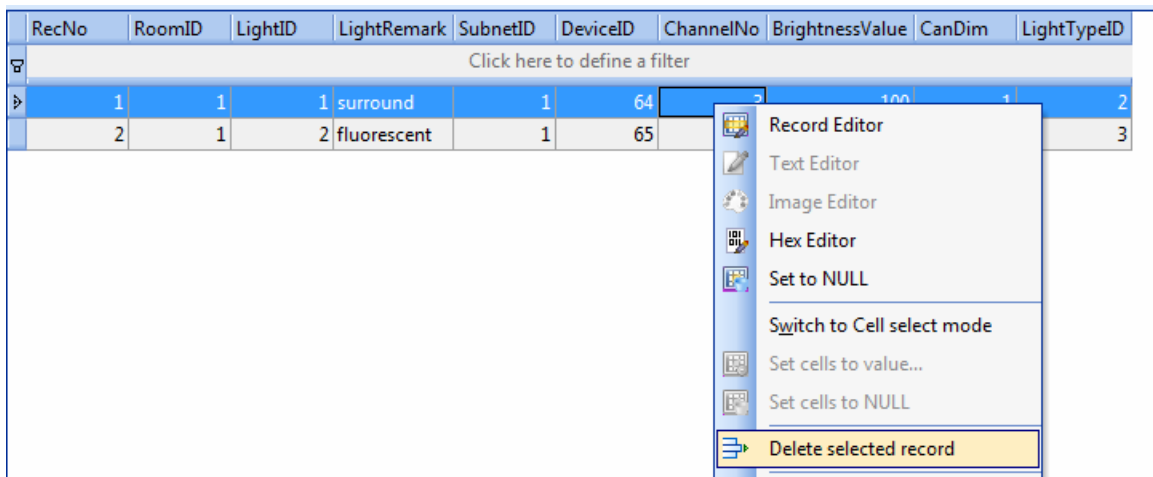
So you can add limitless lights to this room.

Modify Light of room

RecNo	RoomID	LightID	LightRemark	SubnetID	DeviceID	ChannelNo	BrightnessValue	CanDim	LightTypeID
Click here to define a filter									
1	1	1	surround	1	64	3	100	1	2

Delete the light of room

Select the row that you want to delete, right click and select “Delete selected record”



G. Moods Settings of Room

There are 2 steps to setup mood of room

Step 1: add mood name to current room

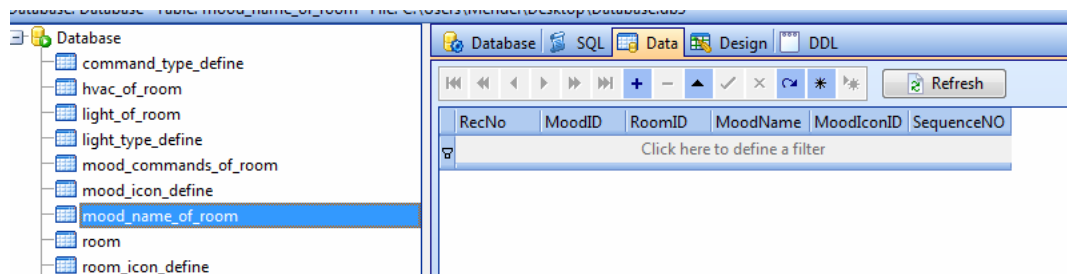
(Table “mood_name_of_room”)

Step2: add commands to current mood of current room

(Table “mood_commands_of_room”)

Step 1:

Select the table “mood_commands_of_room”




The define of table “mood_name_of_room”

Field	Remark	Value
MoodID	The id of mood	Start from 1
RoomID	The id of room, you can find out the RoomID from the table “room”	
MoodName	Mood name	
MoodIconID	This is the mood icon id, you can choose the icon that you want to use from our icon library, please see the define of MoodIconID	
SequenceNo	Sequence ID, this field like the “Order By”, it will arrange the sequence of show	Start from 0,

Define of mood icon ID

MoodIconID	Remark	Icon
0	Default mood	👉
1	Goodbye	🌙
2	Listen to music	🎵
3	Mafia	👤
4	Meeting	👥
5	Presentation	📺
6	Relax	🛀
7	Romantic	🌹
8	watch movie	🎬
9	watch TV	📺
10	All on	💡

Add mood name to the room

Press , then input the data like the following

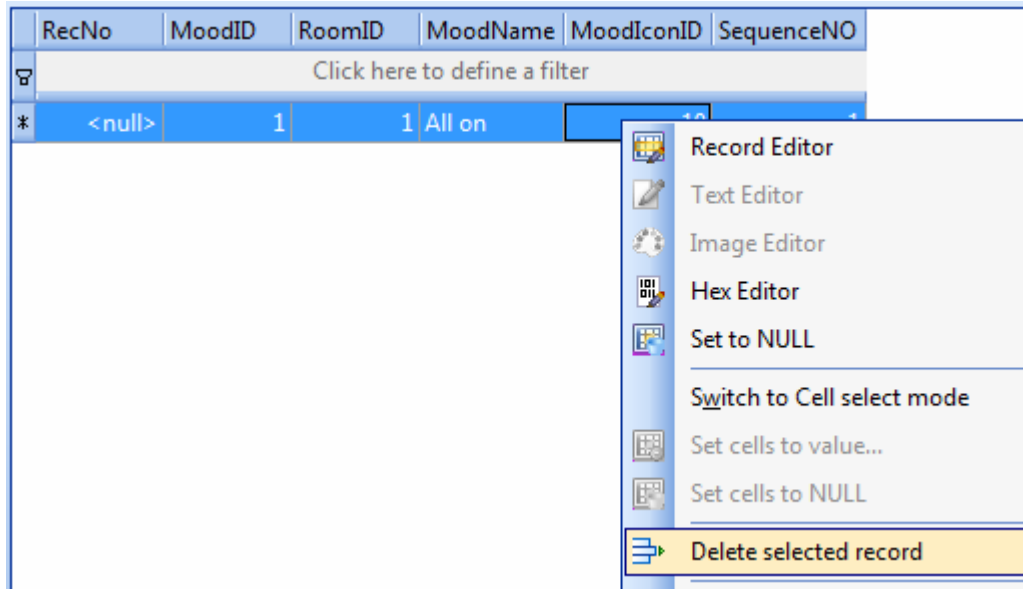
<div> <div> <div>⏮</div> <div>⏪</div> <div>⏩</div> <div>⏭</div> <div>+</div> <div>-</div> <div>⏴</div> <div>✓</div> <div>✕</div> <div>↺</div> <div>*</div> <div>⏮</div> </div> <div>Refresh</div> </div>						
RecNo	MoodID	RoomID	MoodName	MoodIconID	SequenceNO	
Click here to define a filter						
1	1	1	All on	10	1	

Modify mood name of room

RecNo	MoodID	RoomID	MoodName	MoodIconID	SequenceNO	
Click here to define a filter						
*	<null>	1	All on	10	1	

Delete mood name of room

select the row of table that you want to delete, then right click and select “Delete selected record”



Step 2:

Add commands of current mood

select the table “mood_commands_of_room”

The define of table “mood_commands_of_room”

FieldName	Remark	Value
RoomID	See the table “room”	Start from 1
MoodID	See the table “mood_name_of_room”	Start from 1
CommandID	Command ID	Start from 0
SequenceNo	Sequence No, this is the sequence of your commands of current mood which to be executed	Start from 0
Remark		
SubnetID	Address of module	0-254
DeviceID	Address of module	0-254
CommandTypeID	Command type,see the define below	0-12
FirstParameter	It has different meaning depend on the field “CommandTypeID”,see the define below	0-255
SecondParameter	It has different meaning depend on the field	0-255

	“CommandTypeID”,see the define below	
ThirdParameter	It has different meaning depend on the field “CommandTypeID”,see the define below	0-65535
DelaySecondAfterSend	Delay time after sent current command	Start from 0 ,unit: second

The define of Command Type

CommandTypeID	Name	Remark	FirstParameter	SecondParameter	ThirdParameter
0	Scene control		Zone No (0-254)	Scene No (0-254)	Unused (set 0)
1	Sequence Control		Zone No (0-254)	Sequence No (0-254)	Unused (set 0)
2	Universal Switch Control		Universal Switch ID (0-255)	Switch Control status (255:on 0: off)	Unused (set 0)
3	Invalid	Invalid command, it will not take any actions	Any value (0-255)	Any value (0-255)	Any value (0-65535)
4	Single Channel Control		Channel No (1-254)	Brightness percentage (0 -100)	Running Time, unit: second (0 -3600)
5	Broadcast scene	Run the specific scene in all area of current module	Broadcast area (Must be set 255)	Scene No (0-254)	Unused (set 0)
6	Broadcast All channels	Control all the channels of current module	Broadcast all channels (Must be set 255)	Brightness percentage (0 -100)	Running Time, unit: second (0 -3600)
7	Curtain Control	Control curtain if you are using our curtain module	Curtain No (1-4)	Curtain Control Status (0: Stop 1: Open	Unused (set 0)

				2: Close)	
8	Timer Control		Channel No (1-255)	Control Status (255: open 0 : close)	Unused (set 0)
9	GPRS Control	Control our GPRS module (SMS module) , Before you use this GPRS command, You need use GPRS management software to make some configurations	Type ID (0: invalid 1: SMS Message)	GPRS Command No (0-255)	Unused (set 0)
10	Panel control		FirstParameter (TypeID)	SecondParameter (Value)	ThirdParameter (unused)
			0 (invalid)	0	0
			1 (enable/disable IR receive function of DLP)	0: (disable) 1: (enable)	0
			2 (enable/disable key lock of DLP)	0: disable key lock of DLP 1: enable key lock of DLP	0
			3 (Power on/off of Air condition)	0: (power off) 1: (power on)	0
			4 (Set cool	0-30 (cool	0

			temperature)	settings temperatur e, you can see the temperatur e range from DLP of SBUS software)	
			5 (FAN Speed)	0: (auto) 1: (High) 2: (Medium) 3: (low)	0
			6 (AC mode)	0: (Cool) 1: (Heat) 2: (FAN) 3: (Auto)	0
			7 (Set Heat temperature)	0-30 (heat settings temperatur e, you can see the temperatur e range from DLP of SBUS software)	
11	Security Mode control		Zone no (1-8)	Mode No 1: vacation 2: away 3: night 4: Night with guest 5: Day 6: Disarm	Unused (set 0)
12	Security Alarm		Zone no (1-8)	Alarm No 1: vacation 2: Away 4: Night 8: Night with guest 16: Day 32: Siren	Unused (set 0)

					64: Power	
					128: Temperature	
					256: Fire	
					512: Gas	
					1024: Panic	
					2048: Emergency	
					4096: Current	

Add command of mood

RecNo	RoomID	MoodID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelaySecondAfterSend
Click here to define a filter												
1	1	4	1	1	1 goodbye in meeting room 1	1	65	4	1	0	0	0
2	1	4	2	2	2 goodbye in meeting room 2	1	64	0	1	0	0	0

Modify command of mood

RecNo	RoomID	MoodID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelaySecondAfterSend
Click here to define a filter												
1	1	4	1	1	1 goodbye in meeting room 1	1	65	4	1	0	0	0
2	1	4	2	2	2 goodbye in meeting room 2	1	64	0	1	0	0	0

Delete command of mood

RecNo	RoomID	MoodID	CommandID	SequenceNo	Remark	SubnetID	DeviceID	Comr
Click here to define a filter								
1	1	4	1	1	1 goodbye in meeting room 1	1	65	
2	1	4	2	2	2 goodbye in meeting room 2	1	64	

Record Editor

Text Editor

Image Editor

Hex Editor

Set to NULL

Switch to Cell select mode

Set cells to value...

Set cells to NULL

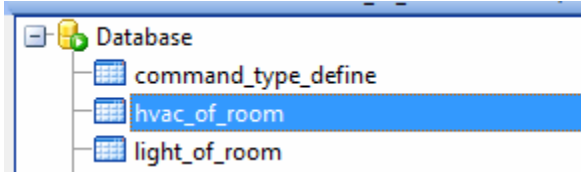
Delete selected record

Select columns

H. HVAC Settings of Room

We will control HVAC by DLP panel, so we just need to set the address of DLP.

Select the table “hvac_of_room”



Define of table “hvac_of_room”

Field	Remark	Value
RoomID	See the table “room”	
SubnetIDOfDLP	The address of DLP	0-254
DeviceIDOfDLP	The address of DLP	0-254

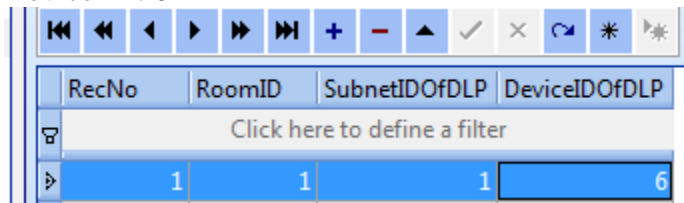
Setup HVAC of room

For example:

The address of DLP in current room is:

Subnet ID: 1

Device ID: 6



I. Copy your database to android device

You need to know that before do it:

Do not change the database name

Do not change the location of folder “SMART-BUS”

Do not change the folder name “SMART-BUS”

After you finished the modification of database, you need to copy the database to android device

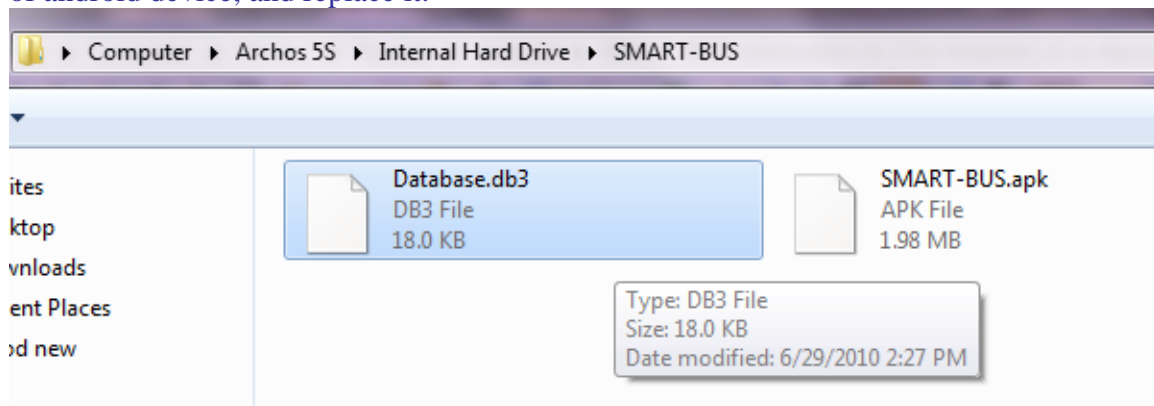
(SMART-BUS android application is located under folder “SMART-BUS” of the root directory of android device)

Step1. You need to close the software “SQLite Expert Personal” before you copy the database “Database.db3”

Step2. Connect your android device to your computer by cable.

Step3. The “SMART-BUS” android application is located under the folder “SMART-BUS” of android device, before you update database, you’d better backup your old database.

Then copy your latest database that you have modified under the folder “SMART-BUS” of android device, and replace it.



You don’t need install the application again, because you just modify the database, the application file APK and database is separated.

Go to run “SMART-BUS” application, you will see the results what you did.

If have anything wrong, please check your database settings.

If you have any questions, please contact me.

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