



**Generation-4 SBUS**

# **Manual of Installation and Configuration for SMART-BUS Android Official Pro Version**

**(Manual version: 1.7**

**Updated Date: November 30, 2013**

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**Create Data 2013-11-30**

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**A:SMART-BUS android APK free version And Official Professional version**

The android smart-bus free version has only one way control, you can control lighting, mood, HVAC, Music control.

## **B. Install android application to android device**

Step1. please Form google play stroe downlown apk of name smartBus and install the smartBus APP

Step2. After you have successfully installed it, you can see the icon “SMART-BUS ”, run it.

Notice:

After you run the app SMART-BUS, this program will generate a named SMART-BUS folder on your memory card inside, in this folder to generate a default database

## **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 “SQLite Expert Personal for windows”, you can download it from SQLite official website.

Or you can go to download from the link I provided



SQLiteExpertPersSetup (1).exe

<http://www.sqliteexpert.com/SQLiteExpertPersSetup.exe>

<http://www.sqliteexpert.com/download.html>

After downloading and installing on your computer

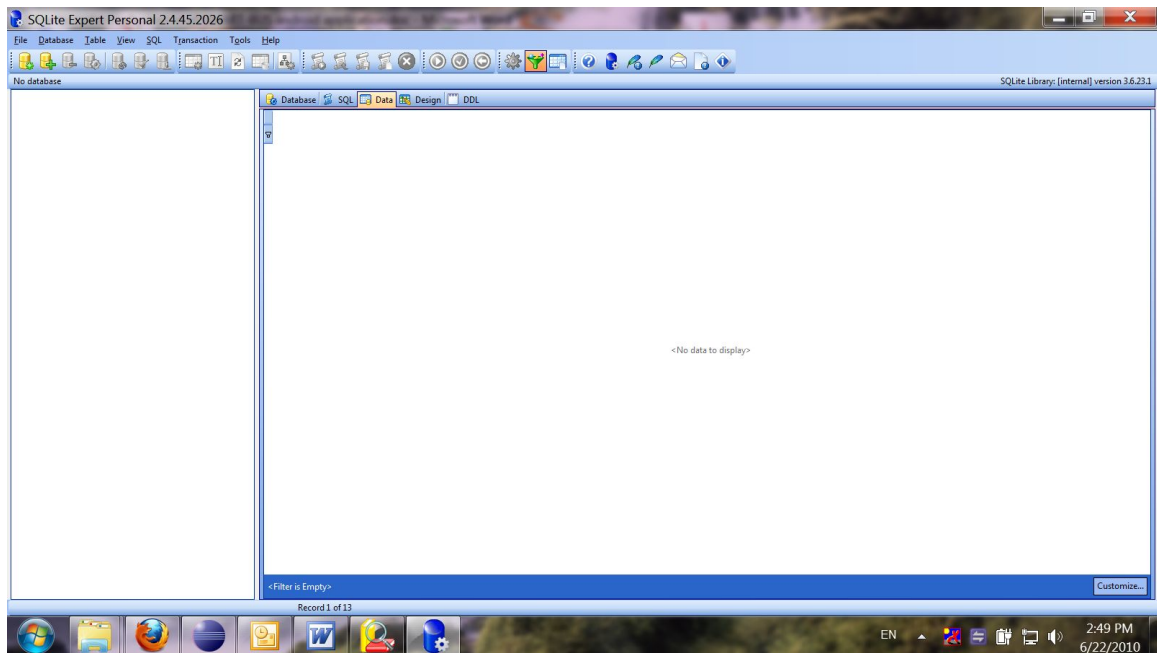
#### **D. Open database “database.db3”**

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

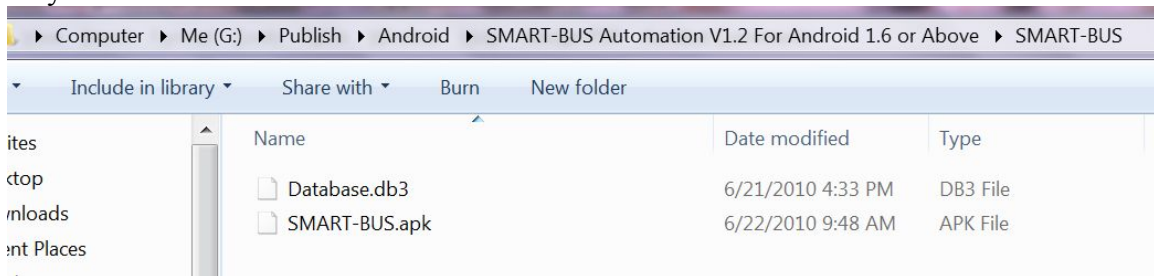
After you install the software “SQLiteExpertPersSetup for windows.exe”, run the



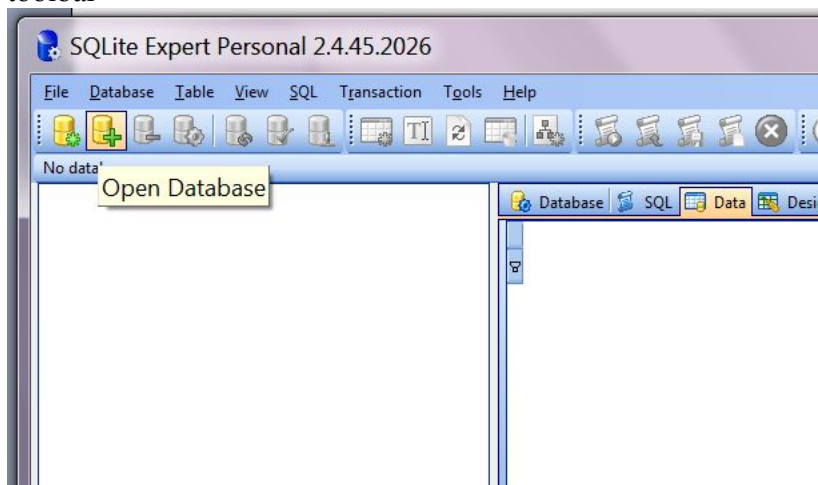
software.



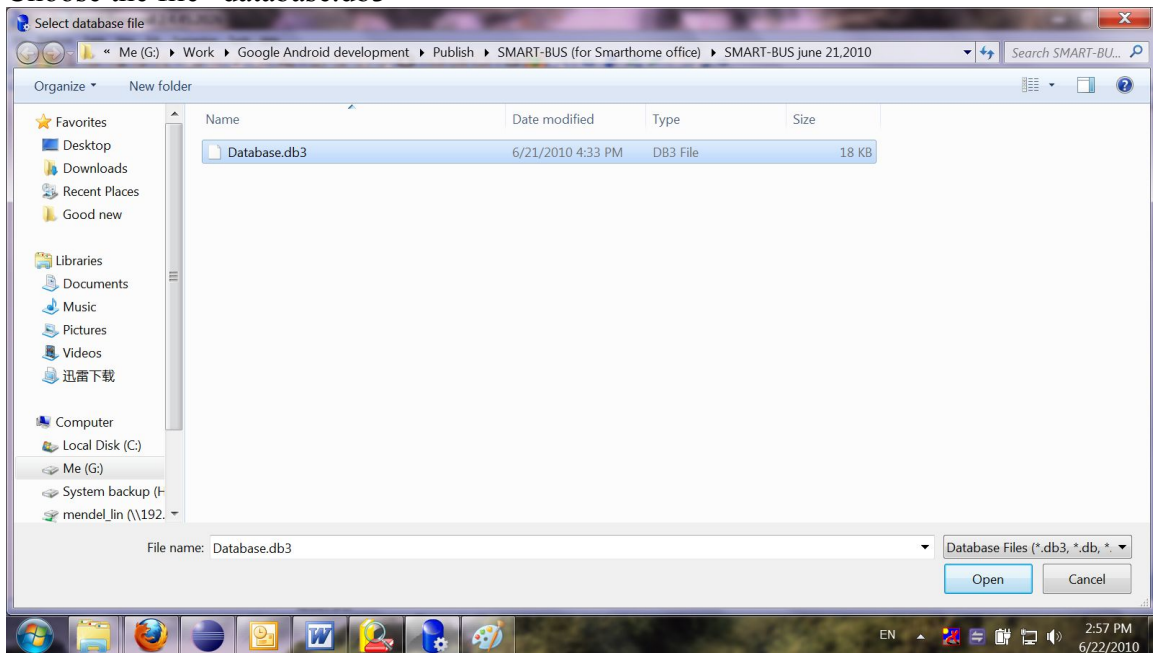
Open the our database “Database.db3”  
you will find out database “Database.db3” under the folder “SMART-BUS”



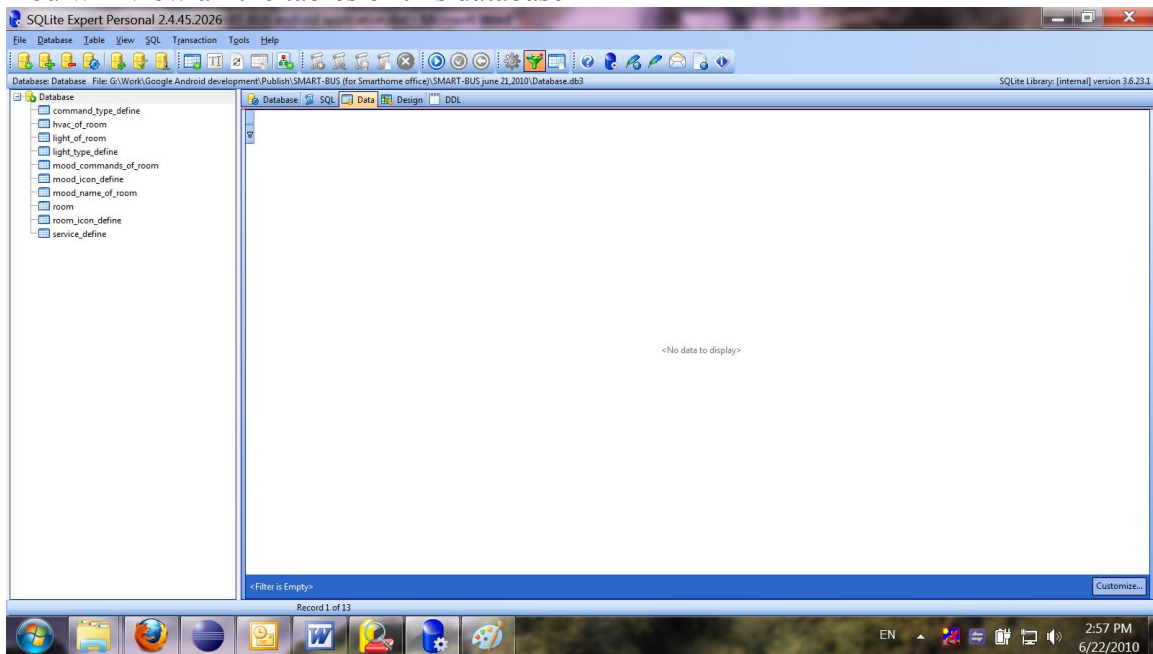
On the software “SQLite Expert Personal “, click the button “Open Database” on the toolbar



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:

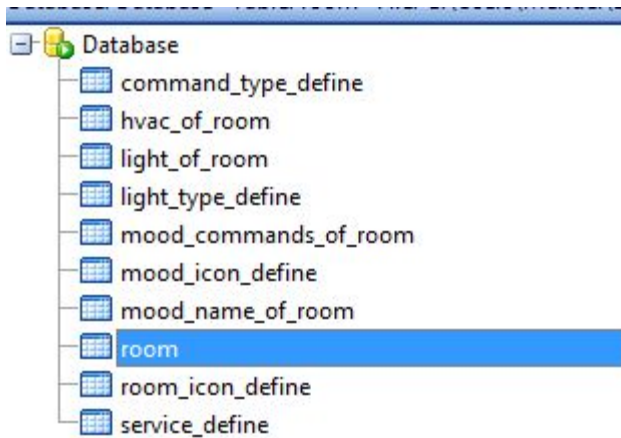
Do not delete any table

Do not change any table name

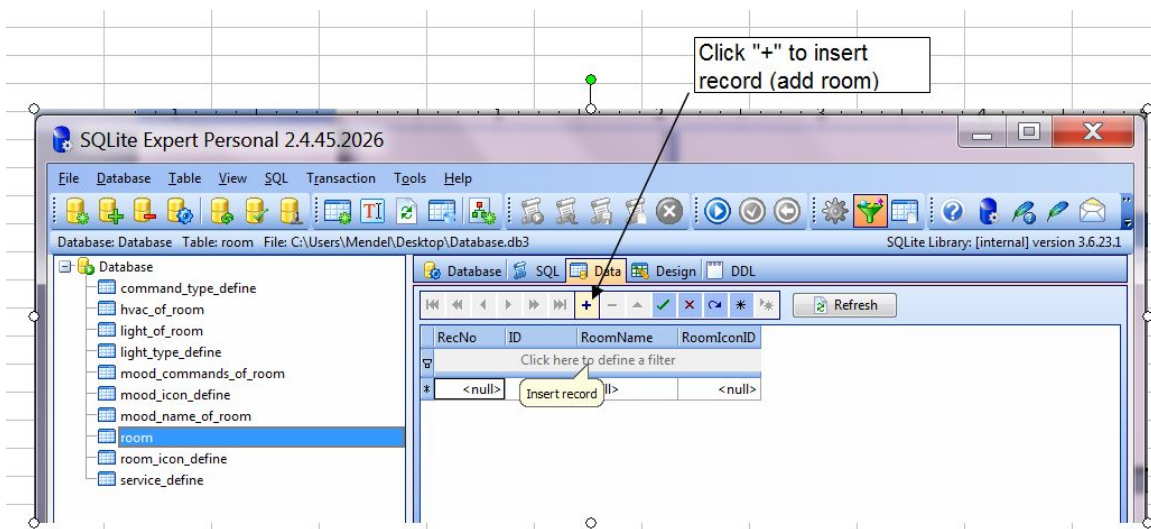
Do not add/change/delete any fields of tables

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






	define of RoomIconID	
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**The define of RoomIconID**

<b>Define of RoomIconID</b>		
<b>RoomIconID</b>	<b>Remark</b>	<b>Icon</b>
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	Office/study room	

13	Outside/garden	
14	Parking	
15	Stair	
16	parlor	
17	Rest room	
18	Training room	
19	Children`s Room	

20	KTV/Bar	
21	Demo kit	
22	Hotel Demo	

### Add room

ID=1

RoomName=Meeting Room,

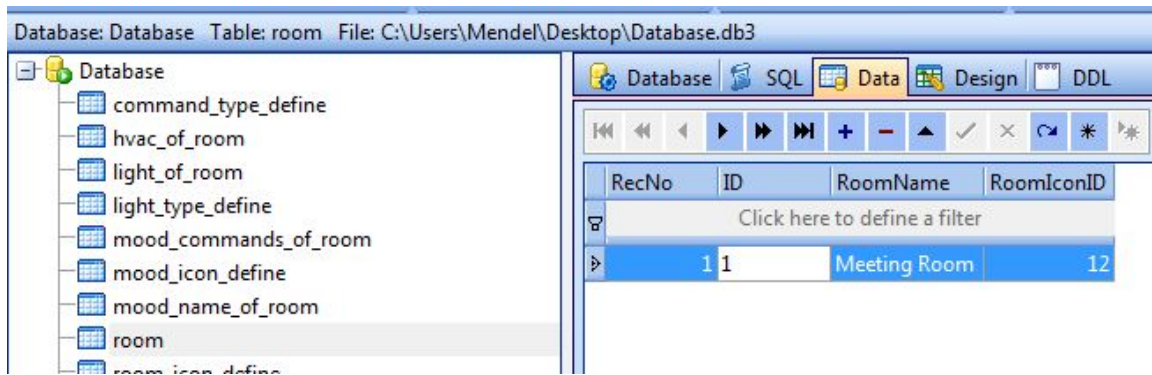
RoomIconID=12 (check the define “**RoomIconID**” above )



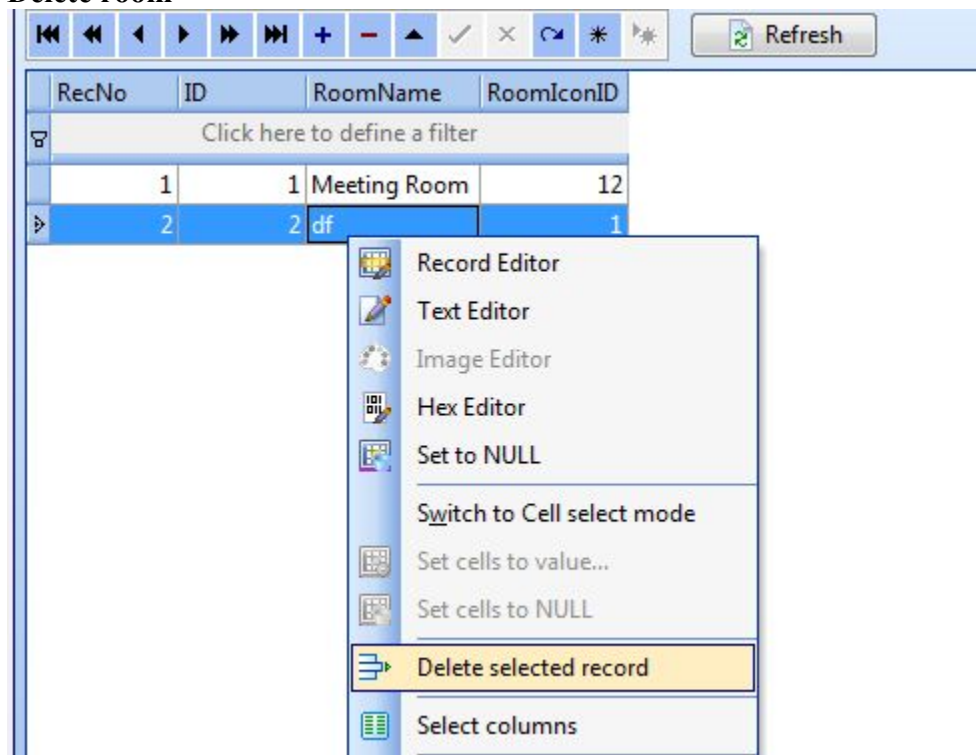
If you want to add more rooms, just do it the same as above.

### Modify room

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

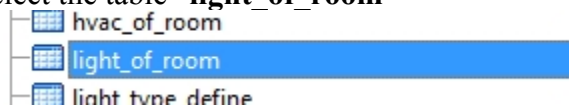


### Delete room



## 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

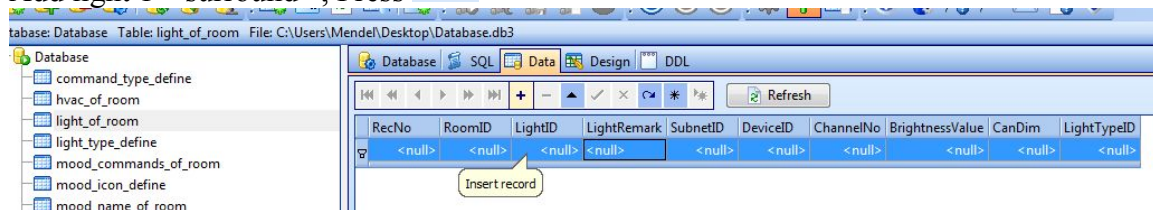
The define of LightTypeID

LightTypeID	Remark	Icon
1	incandescent light	

2	spot light	
3	fluorescent light	
4	chandelier light	
5	Table lamp lighth	
6	Table lamp lighth2	
7	lamp	
8	Table lamp lighth3	

6

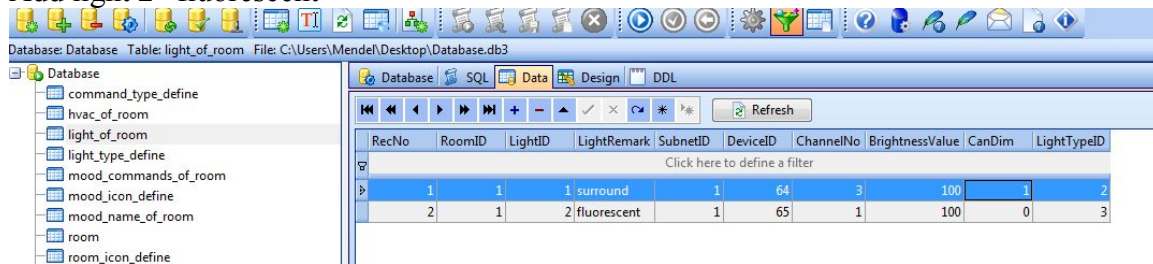
Add light 1 “surround”, Press 



Input data of light



Add light 2 “fluorescent”



So you can add limitless lights to this room.

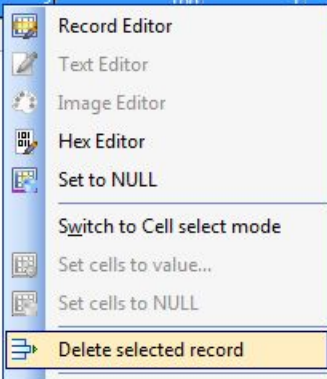
**Modify Light of room**

RecNo	RoomID	LightID	LightRemark	SubnetID	DeviceID	ChannelNo	BrightnessValue	CanDim	LightTypeID
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”

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
2	1	2	fluorescent	1	65				3



- 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

## G. Moods Settings of Room

**There are 2 steps to setup mood of room**

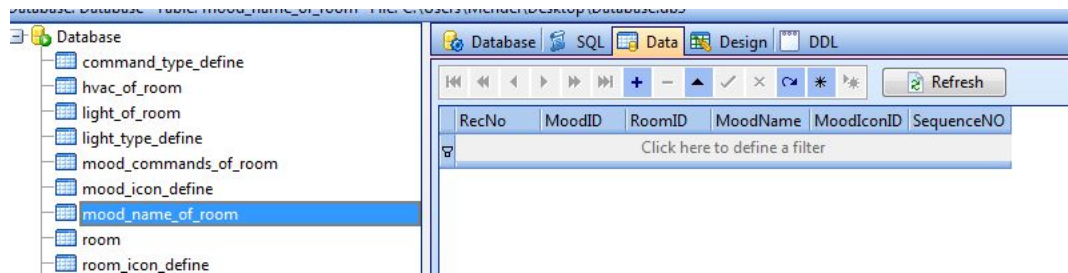
Step 1: add mood name to current room  
(Table “mood\_name\_of\_room”)

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,

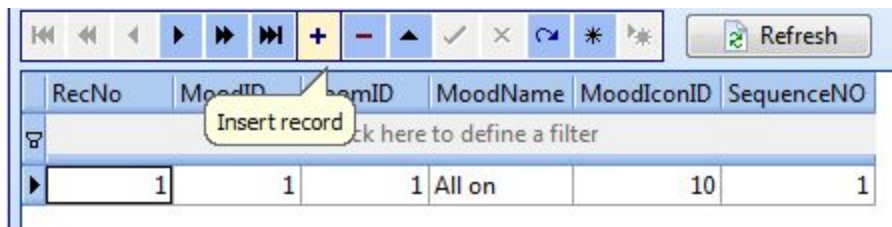
#### Define of mood icon ID

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	💡💡
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### Add mood name to the room

Press , then input the data like the following



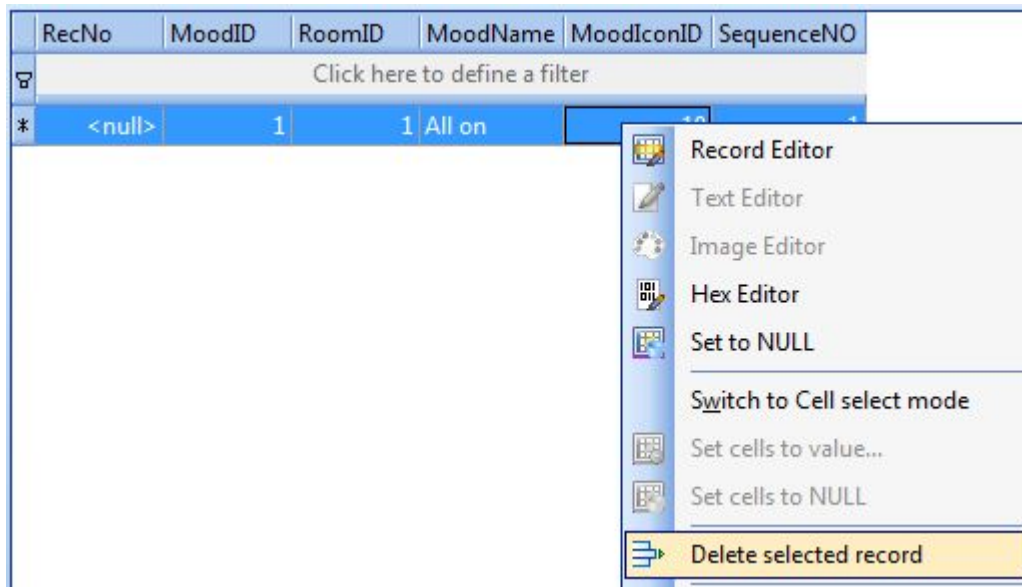
RecNo	MoodID	RoomID	MoodName	MoodIconID	SequenceNO
1	1	1	All on	10	1

### Modify mood name of room

RecNo	MoodID	RoomID	MoodName	MoodIconID	SequenceNO
<null>	1	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”



RecNo	MoodID	RoomID	MoodName	MoodIconID	SequenceNO
<null>	1	1	All on	10	1

**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 “CommandTypeID”,see the define below	0-255
ThirdParameter	It has different meaning depend on the field “CommandTypeID”,see the define below	0-65535
DelayMillisecondAfterSend	Delay time after sent current command. <b>1 second=1000 millisecond</b> <b>Ex. If you want to delay 1 second, should input 1000</b>	Start from 0 , unit: Millisecond

**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		Universal	Switch	Unused

	<b>al Switch Control</b>		Switch ID (0-255)	Control status (255:on 0: off)	(set 0 )
3	<b>Invalid</b>	Invalid command, it will not take any actions	Any value (0-255)	Any value (0-255)	Any value (0-65535)
4	<b>Single Channel Control</b>		Channel No (1-254)	Brightness percentage (0 -100)	Running Time, unit: second (0 -3600)
5	<b>Broadcast scene</b>	Run the specific scene in all area of current module	Broadcast area (Must be set 255)	Scene No (0-254)	Unused (set 0 )
6	<b>Broadcast All channels</b>	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	<b>Curtain Control</b>	Control curtain if you are using our curtain module	Curtain No (1-4)	Curtain Control Status (0: Stop 1: Open 2: Close)	Unused (set 0 )
8	<b>Timer Control</b>		Channel No (1-255)	Control Status (255: open 0 : close)	Unused (set 0 )
9	<b>GPRS Control</b>	Control our GPRS module (SMS module) , Before you use this GPRS command, You need use GPRS management software	Type ID ( 0: invalid 1: SMS Message )	GPRS Command No (0-255)	Unused (set 0 )

		to make some configurati ons			
10	Panel control		<b>FirstParameter (TypeID)</b>	<b>SecondParameter (Value)</b>	<b>ThirdParameter (unused)</b>
			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 temperature)	0-30 (cool settings temperatur e, you can see the temperatur e range from DLP of SBUS software)	0
			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	0-30 (heat	

			temperature)	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 64: Power  128: Temperature  256: Fire 512: Gas 1024: Panic 2048: Emergency  4096: Current	Unused (set 0)

**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	goodbye in meeting room 1	1	65	4	1	0	0	0
2	1	4	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	goodbye in meeting room 1	1	65	4	1	0	0	0
2	1	4	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	CommandTypeID	FirstParameter	SecondParameter	ThirdParameter	DelaySecondAfterSend
Click here to define a filter												
1	1	4	1	1	goodbye in meeting room 1	1	65	4	1	0	0	0
2	1	4	2	2	goodbye in meeting room 2	1	64	0	1	0	0	0

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

## 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”

Database
command_type_define
<b>hvac_of_room</b>
light_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

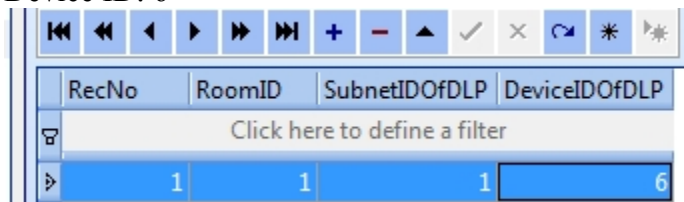
### Setup HVAC of room

For example:

The address of DLP in current room is:

Subnet ID: 1

Device ID: 6



RecNo	RoomID	SubnetIDOfDLP	DeviceIDOfDLP
1	1	1	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)

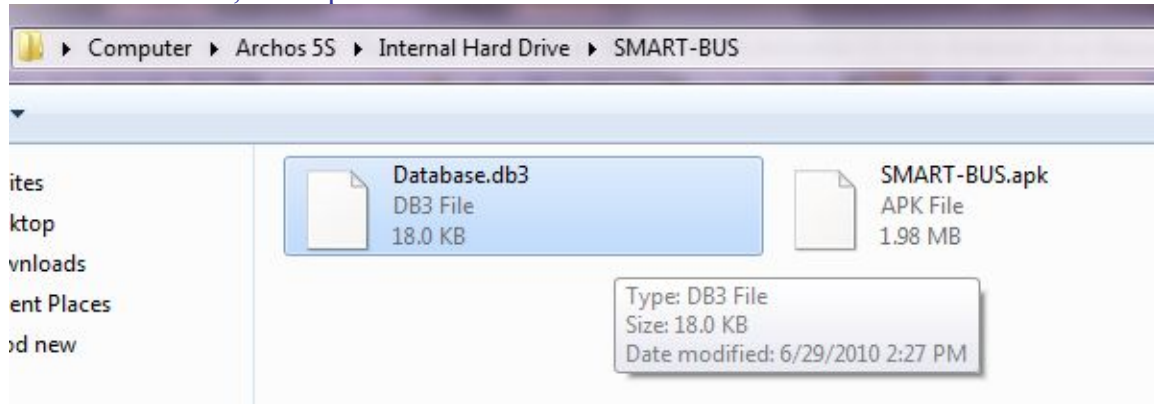


Step1. You need to close the software “SQLite Expert Personal” before you copy the database “Database.db3”

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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