

2 Ways to generate SQL statements and execute them ...

Who never faced the challenge to generate SQL statements and/or commands dynamically based on some conditions ? GRANT, REVOKE, SELECT, REBIND, ALTER ...

Skilled in DB2TEP and REXX and JCL ? Otherwise, it could rapidly become a headache ...

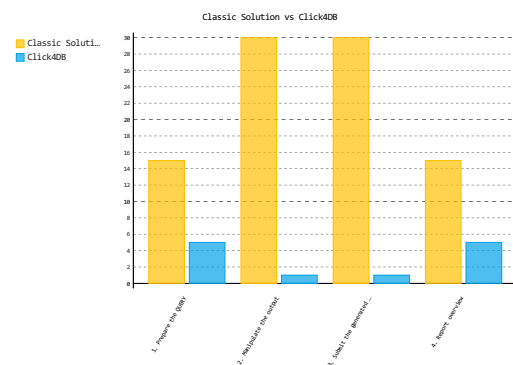
Our **Click4DB** concept integrates this naturally : collect data based on any conditions, generate queries and/or commands with the results. Any output from the server can be manipulated and serves as input to a next action.

Let's compare the required tasks between a "classic DB2TEP/REXX/JCL" approach and Click4DB ...

SQL Stmt Generator without vs with Click4DB

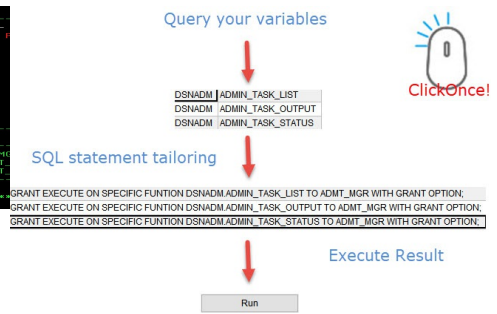
Subtasks	DB2TEP/REXX/JCL	Click4DB App
1. Prepare the QUERY	- Write your QUERY - Test it on different systems	Click4DB functionality
2. Manipulate the output	- Manage DB2TEP output - Manage multi-lines - Manage eventual SQL ID changes	Implicit
3. Submit the generated QUERY	- Solve SQL syntax error (back to step 1) - Test it on different systems	Click4DB functionality
4. Report overview	- Analyze job output - Report eventual errors	Click4DB functionality

Subtasks cost estimation (minutes)



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Display Editor View Print Options Search Help
SDSF OUTPUT DISPLAY IBMUSERA JOB01476 DSID 104 LINE 3 COLUMNS 02
COMMAND INPUT ==> -
SQL STATEMENT: -
SELECT DISTINCT 'GRANT EXECUTE ON SPECIFIC FUNCT ' ||
STRIP(SCHEMA) || ' ' ||
STRIP(NAME) || ' ' ||
TO ADMT_MGR WITH GRANT OPTION;'
FROM SYSTEM.SYSROUTINES
WHERE ROUTINETYP = 'C'
AND NAME LIKE 'TASKS'
ORDER BY 1
-----
1 | GRANT EXECUTE ON SPECIFIC FUNCT DSNADM ADMIN_TASK_LIST TO ADMT_MGR WITH GRANT OPTION;
2 | GRANT EXECUTE ON SPECIFIC FUNCT DSNADM ADMIN_TASK_OUTPUT TO ADMT_MGR WITH GRANT OPTION;
3 | GRANT EXECUTE ON SPECIFIC FUNCT DSNADM ADMIN_TASK_STATUS TO ADMT_MGR WITH GRANT OPTION;
-----
SUCCESSFUL RETRIEVAL OF 3 ROW(S)
***** BOTTOM OF DATA *****
    
```



Available data exploitation features

Output Data	Standard solution	Click4DB
QUERY RESULT SETs	Easy but not flexible	Out of the box
STORED PROCEDURE OUTPUTs	Easy but not flexible	Out of the box
DB2 MESSAGES CONTENT	Time consuming	Out of the box
BSDS PRINT	Time consuming	Out of the box
MEPL SYSOUT	Time consuming	Out of the box
SYSLOG MESSAGES	Time consuming	Out of the box

General features comparison table

Criteria	Standard solution	Click4DB
Cost vs #subsystems	Linear 😞	Constant 😊
Configuration affinities (names, parameters ..)	To manage manually 😞	Auto learned 😊
Documentation	Time consuming 😞	Self documented 😊
Flexibility (Response to changes)	Flaw 😞	Strength 😊
Validation process	To be developed 😞	Implicit 😊
Team oriented	Often use of user PDS or folder 😞	Shared repository 😊
Any platform	n/a 😞	Available 😊