

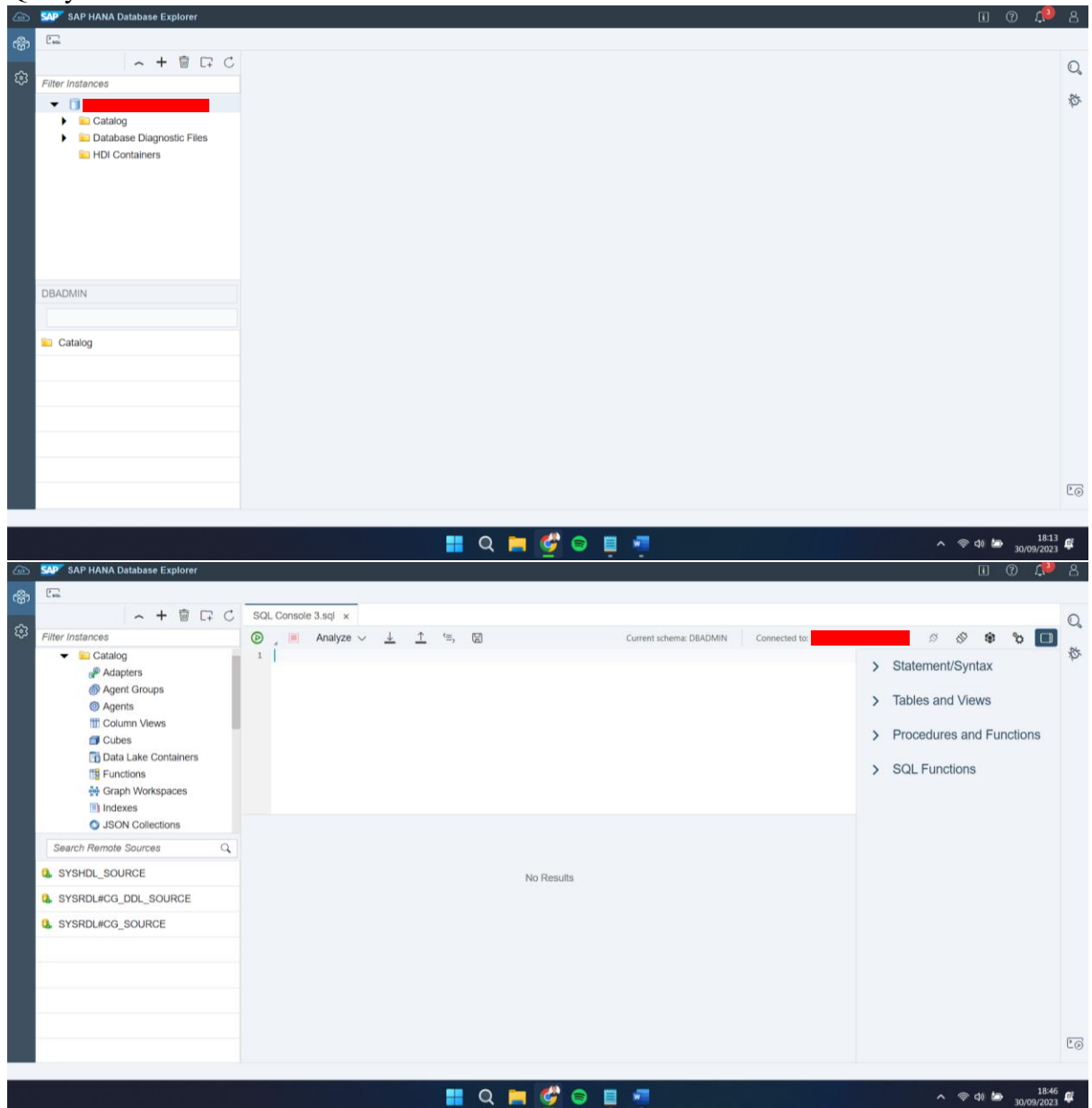
**Nama : Mikhael Aditha Sembiring Meliala**

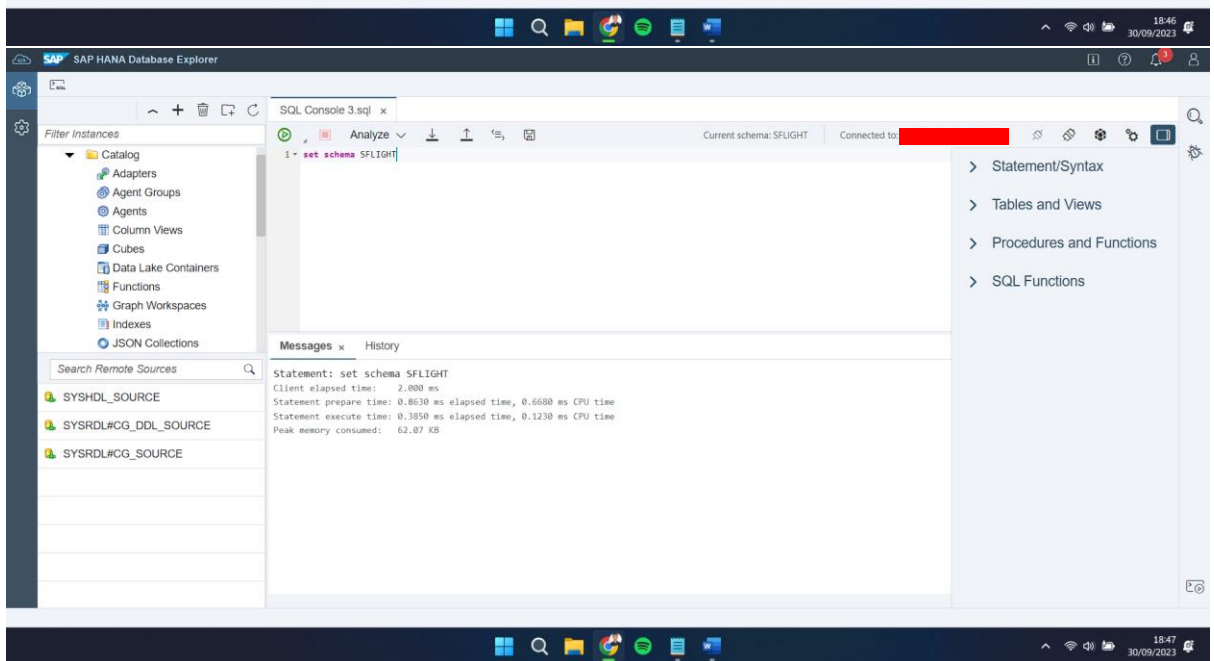
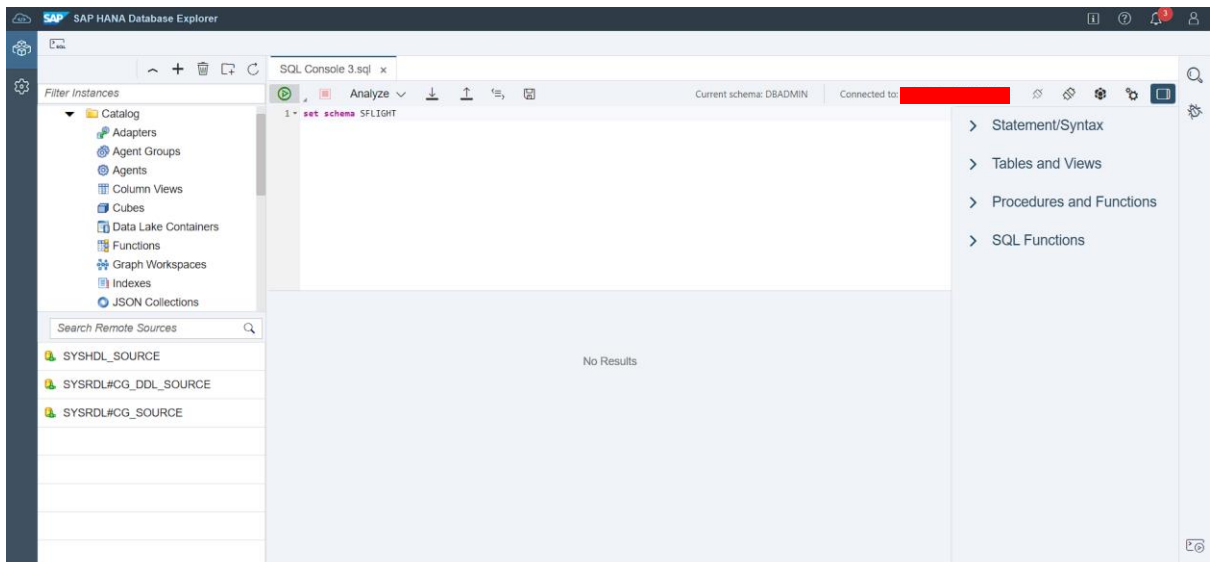
**NIM : 201402079**

**Mata Kuliah : Enterprise Development Software**

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## 5. Query Data on SAP HANA Cloud





CREATE TABLE SAGENCYDATA as (select SBOOK.AGENCYNUM,  
count(SBOOK.AGENCYNUM) as NUMBOOKINGS from SBOOK, STRAVELAG where  
SBOOK.AGENCYNUM=STRAVELAG.AGENCYNUM group by SBOOK.AGENCYNUM order by  
count(SBOOK.AGENCYNUM)desc);

The screenshot shows the SAP HANA Database Explorer interface. The SQL Console displays the following statement:

```
1 CREATE TABLE SAGENCYDATA as (select SBOOK.AGENCYNUM, count(SBOOK.AGENCYNUM) as NUMBOOKINGS from SBOOK, STRAVELAG where SBOOK.AGENCYNUM=STRAVELAG.AGENCYNUM group by SBOOK.AGENCYNUM order by count(SBOOK.AGENCYNUM)desc);
```

The Messages pane shows the execution details:

```
Statement: CREATE TABLE SAGENCYDATA as (select SBOOK.AGENCYNUM, count(SBOOK.AGENCYNUM) as NUMBOOKINGS from ...
Client elapsed time: 94.00 ms
Statement prepare time: 2.883 ms elapsed time, 2.674 ms CPU time
Statement execute time: 92.08 ms elapsed time, 97.24 ms CPU time
Peak memory consumed: 96.89 KB
```

The right-hand pane shows a tree view with the following items:

- Statement/Syntax
- Tables and Views (2)
- Procedures and Functions
- SQL Functions (1)

SELECT \* FROM SAGENCYDATA

The screenshot shows the SAP HANA Database Explorer interface. The SQL Console displays the following statement:

```
1 SELECT * FROM SAGENCYDATA
```

The Result pane shows the following data:

AGENCYNUM	NUMBOOKINGS
00000284	27870
00000122	27869
00000109	27867
00000101	27866
00000118	27416
00000087	25936
00000061	25935
00000113	24459
00000093	24458
00000104	24458

The right-hand pane shows a tree view with the following items:

- Statement/Syntax
- Tables and Views (1)
- Procedures and Functions
- SQL Functions

SELECT TOP 5 SAGENCYDATA.AGENCYNUM,  
STRAVELAG.NAME,SAGENCYDATA.NUMBOOKINGS from SAGENCYDATA INNER JOIN  
STRAVELAG on SAGENCYDATA.AGENCYNUM = STRAVELAG.AGENCYNUM;

The screenshot shows the SAP HANA Database Explorer interface. The SQL Console displays the following query:

```
1 SELECT TOP 5 SAGENCYDATA.AGENCYNUM, STRAVELAG.NAME, SAGENCYDATA.NUMBOOKINGS from SAGENCYDATA INNER JOIN STRAVELAG on SAGENCYDATA.AGENCYNUM = STRAVELAG.AGENCYNUM;
```

The Results pane shows the output of the query:

AGENCYNUM	NAME	NUMBOOKINGS
00000284	Rainy, Stormy, Cloudy	27870
00000122	Fly Low	27869
00000109	Kangeroos	27867
00000101	Bella Italia	27866
00000118	Asia By Plane	27416

CREATE TABLE STOPAGENCY as (select top 5 SAGENCYDATA.AGENCYNUM,  
STRAVELAG.NAME,SAGENCYDATA.NUMBOOKINGS from SAGENCYDATA INNER JOIN  
STRAVELAG on SAGENCYDATA.AGENCYNUM = STRAVELAG.AGENCYNUM);

The screenshot shows the SAP HANA Database Explorer interface. The SQL Console displays the following statement:

```
1 CREATE TABLE STOPAGENCY as (select top 5 SAGENCYDATA.AGENCYNUM, STRAVELAG.NAME, SAGENCYDATA.NUMBOOKINGS from SAGENCYDATA INNER JOIN STRAVELAG on SAGENCYDATA.AGENCYNUM = STRAVELAG.AGENCYNUM);
```

The Messages pane shows the execution details:

```
Statement: CREATE TABLE STOPAGENCY as (select top 5 SAGENCYDATA.AGENCYNUM, ...
Client elapsed time: 26.00 ms
Statement prepare time: 2.882 ms elapsed time, 2.517 ms CPU time
Statement execute time: 23.87 ms elapsed time, 22.43 ms CPU time
Peak memory consumed: 89.15 KB
```

SELECT \* FROM STOPAGENCY

The screenshot shows the SAP HANA Database Explorer interface. The SQL Console displays the query `SELECT * FROM STOPAGENCY`. The results are shown in a table with 5 rows and 3 columns: AGENCYNUM, NAME, and NUMBOOKINGS.

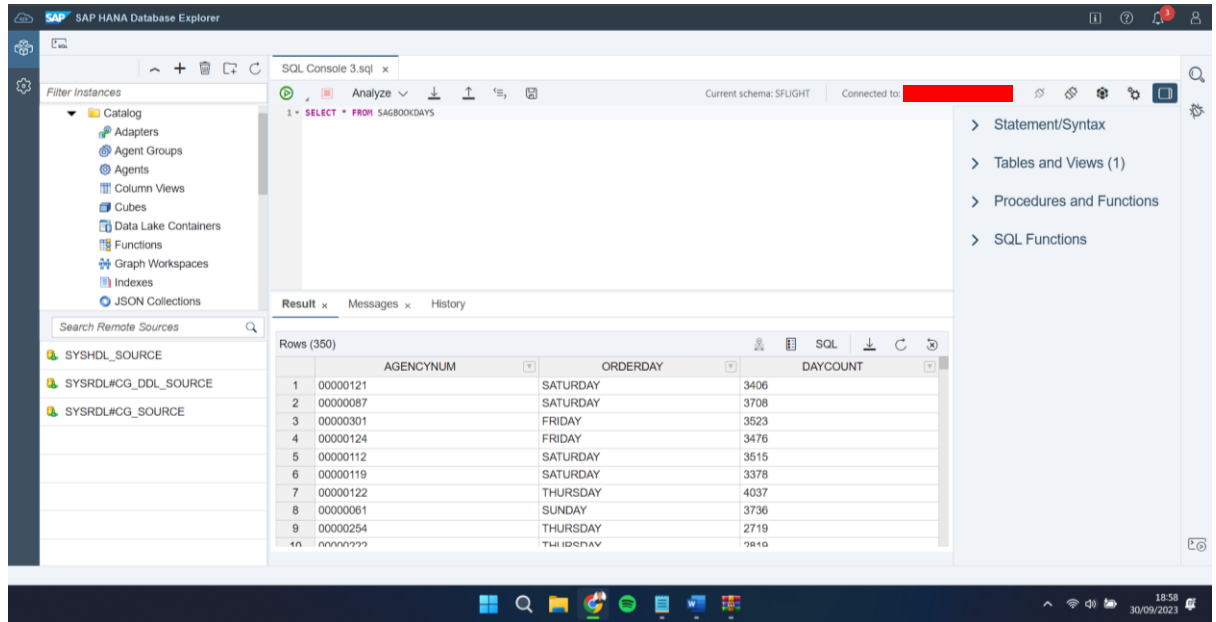
	AGENCYNUM	NAME	NUMBOOKINGS
1	00000284	Rainy, Stormy, Cloudy	27870
2	00000122	Fly Low	27869
3	00000109	Kangeroos	27867
4	00000101	Bella Italia	27866
5	00000118	Asia By Plane	27416

CREATE TABLE SAGBOOKDAYS as (select AGENCYNUM, dayname(ORDER\_DATE) as ORDERDAY, count(dayname(ORDER\_DATE)) as DAYCOUNT from SBOOK group by AGENCYNUM, dayname(ORDER\_DATE));

The screenshot shows the SAP HANA Database Explorer interface. The SQL Console displays the query `CREATE TABLE SAGBOOKDAYS as (select AGENCYNUM, dayname(ORDER_DATE) as ORDERDAY, count(dayname(ORDER_DATE)) as DAYCOUNT from SBOOK group by AGENCYNUM, dayname(ORDER_DATE));`. The Messages pane shows the execution details of the statement.

Statement: CREATE TABLE SAGBOOKDAYS as (select AGENCYNUM, dayname(ORDER\_DATE) as ORDERDAY, ...  
Client elapsed time: 297.0 ms  
Statement prepare time: 3.156 ms elapsed time, 2.841 ms CPU time  
Statement execute time: 294.5 ms elapsed time, 543.3 ms CPU time  
Peak memory consumed: 91.88 KB

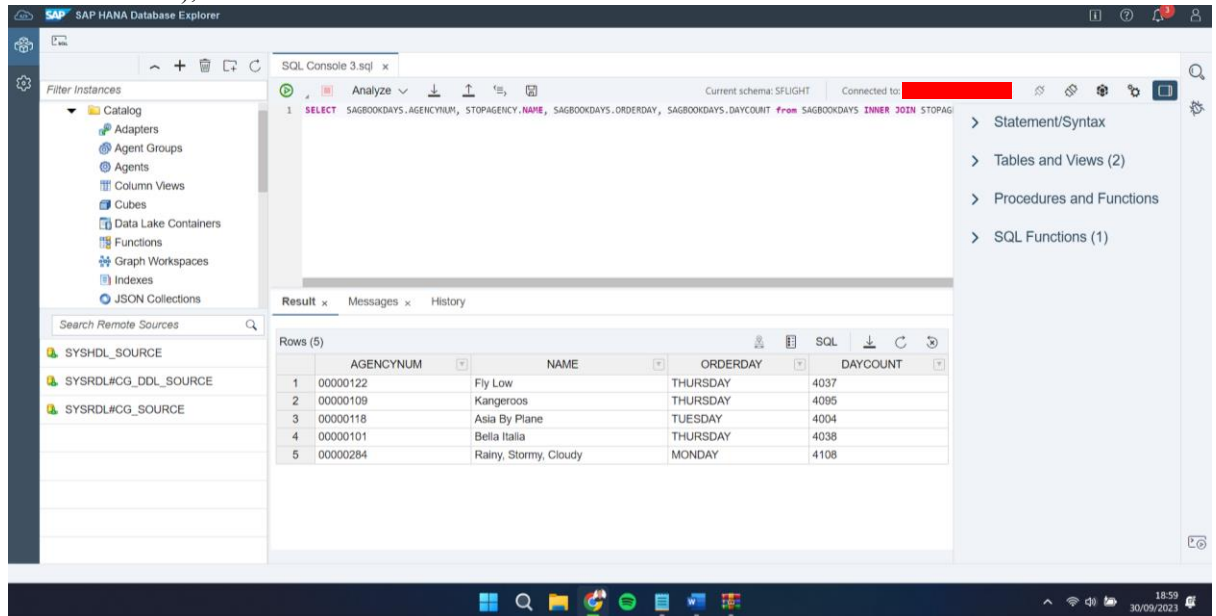
SELECT \* FROM SAGBOOKDAYS



The screenshot shows the SAP HANA Database Explorer interface. The SQL Console displays the query `SELECT * FROM SAGBOOKDAYS`. The results are shown in a table with 350 rows. The table has four columns: AGENCYNUM, ORDERDAY, and DAYCOUNT. The first few rows are as follows:

	AGENCYNUM	ORDERDAY	DAYCOUNT
1	00000121	SATURDAY	3406
2	00000087	SATURDAY	3708
3	00000301	FRIDAY	3523
4	00000124	FRIDAY	3476
5	00000112	SATURDAY	3515
6	00000119	SATURDAY	3378
7	00000122	THURSDAY	4037
8	00000061	SUNDAY	3736
9	00000254	THURSDAY	2719
10	00000222	THURSDAY	2810

SELECT SAGBOOKDAYS.AGENCYNUM, STOPAGENCY.NAME,  
SAGBOOKDAYS.ORDERDAY, SAGBOOKDAYS.DAYCOUNT from SAGBOOKDAYS INNER  
JOIN STOPAGENCY on SAGBOOKDAYS.AGENCYNUM=STOPAGENCY.AGENCYNUM where  
SAGBOOKDAYS.DAYCOUNT in (select max(DAYCOUNT) from SAGBOOKDAYS group by  
AGENCYNUM);



The screenshot shows the SAP HANA Database Explorer interface. The SQL Console displays a complex query: `SELECT SAGBOOKDAYS.AGENCYNUM, STOPAGENCY.NAME, SAGBOOKDAYS.ORDERDAY, SAGBOOKDAYS.DAYCOUNT from SAGBOOKDAYS INNER JOIN STOPAGENCY on SAGBOOKDAYS.AGENCYNUM=STOPAGENCY.AGENCYNUM where SAGBOOKDAYS.DAYCOUNT in (select max(DAYCOUNT) from SAGBOOKDAYS group by AGENCYNUM);`. The results are shown in a table with 5 rows. The table has four columns: AGENCYNUM, NAME, ORDERDAY, and DAYCOUNT. The first few rows are as follows:

	AGENCYNUM	NAME	ORDERDAY	DAYCOUNT
1	00000122	Fly Low	THURSDAY	4037
2	00000109	Kangeroos	THURSDAY	4095
3	00000118	Asia By Plane	TUESDAY	4004
4	00000101	Bella Italia	THURSDAY	4038
5	00000284	Rainy, Stormy, Cloudy	MONDAY	4108