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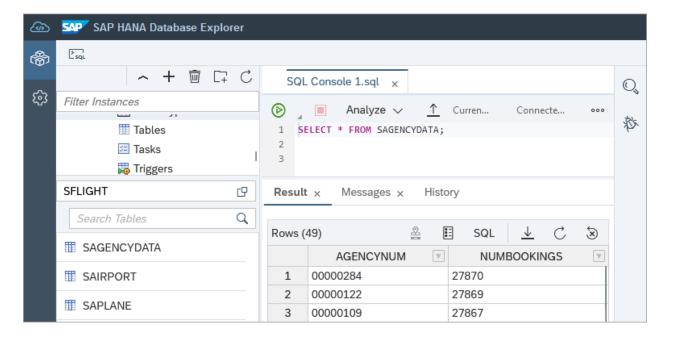
Getting Started with SAP HANA Cloud

5. Modul 5: Query Data on SAP HANA Cloud

- Creating a New Table - SAGENCYDATA

In order to determine the popularity of travel agents, a new table, SAGENCYDATA, is being created by combining data from the SBOOK and STRAVELAG tables. Use this query :

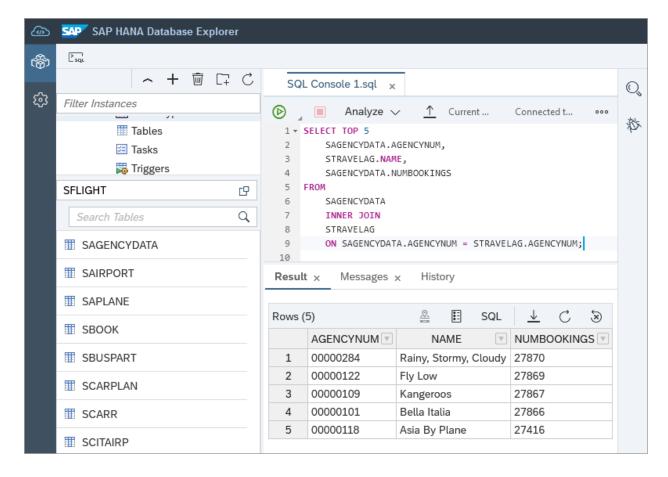
CREATE TABLE SAGENCYDATA as (select SBOOK.AGENCYNUM, count(SBOOK.AGENCYNUM) as NUMBOOKINGS FROM SBOOK, STRAVELAG WHERE SBOOK.AGENCYNUM=STRAVELAG.AGENCYNUM group by SBOOK.AGENCYNUM ORDER BY count(SBOOK.AGENCYNUM) desc);



- Finding Top 5 Agencies

Join the tables STRAVELAG and SAGENCYDATA based on the column AGENCYNUM and extract the top 5 agencies from the result. This will give you the list of agency numbers, names, and the number of bookings for the top 5 agencies. Use this query:

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



- Extracting Booking Days Data

Since Alex also wants to know on which days of the week the top 5 travel agencies make most bookings, we need to use a few more queries.

To find the top booking days, we will first create two new tables:

- STOPAGENCY: name, agency number, and count of the bookings made by top 5 agencies
- SAGBOOKDAYS: details on the number of bookings made per day for each of the agencies

First create the STOPAGENCY table by storing the result of the previous query in a new table. Run this query in your console:

```
CREATE TABLE STOPAGENCY AS (SELECT TOP 5 SAGENCYDATA.AGENCYNUM, STRAVELAG.NAME, SAGENCYDATA.NUMBOOKINGS FROM SAGENCYDATA INNER JOIN STRAVELAG ON SAGENCYDATA.AGENCYNUM = STRAVELAG.AGENCYNUM);
```

To view all contents of this table, just copy and paste the following query into the SQL console and run it:

```
SELECT * FROM STOPAGENCY;
```

Next, create the table SAGBOOKDAYS to store the daily bookings for each of the agencies. Use the following 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))

To view all contents of this new table, you can again use the SELECT * FROM query:

SELECT * FROM SAGBOOKDAYS;

Now that you have created the 2 tables, join these tables based on the agency number (column AGENCYNUM). You also need to extract only the day with maximum number of bookings for each of the top 5 agencies. For this, use the following nested queries:

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)

Now you can see that the most bookings for the top 5 agencies have been done on Thursdays.

