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Snowflake Lab 5

5.1.7 Creating the Nation Table

The screenshot shows the Snowflake web interface. On the left, a sidebar lists databases including ADMIN, BADGER_DB, BEETLE_DB, BISON_DB, BLUEJAY_DB, BOA_DB, CAMEL_DB, CATFISH_DB, CAT_DB, CHEETAH_DB, CHIPMUNK_DB, COBRA_DB, COYOTE_DB, CRICKET_DB, DOG_DB, DOLPHIN_DB, DRAGON_DB, EAGLE_DB, FALCON_DB, FERRET_DB, FINCH_DB, and FLAMINGO_DB. The main panel displays a SQL query editor with the following code:

```
ERROR_ON_COLUMN_COUNT_MISMATCH = FALSE;

-- 5.1.7 Create the target table.
-- We've been given a target table format. Let's create the table now.

CREATE OR REPLACE TABLE nation (
  NATION_KEY INTEGER
  , REGION VARCHAR
  , REGION_CODE VARCHAR
  , NATION VARCHAR
  , COMMENTS VARCHAR
);
```

Below the editor, the 'Results' tab shows a single row with the status 'Table NATION successfully created.' The 'Query Details' panel on the right indicates a query duration of 182ms and 1 row returned. The 'status' bar at the bottom shows '100% filled'.

5.1.8 Adding the alias column names

The screenshot shows the Snowflake web interface with a SQL query editor. The query is as follows:

```
SELECT N_KEY AS N_KEY, N_NAME AS N_NAME, R_KEY AS R_KEY, N_COMMENT AS N_COMMENT
FROM @training_db.trainingtab.ed_stage/load/lab_files/nation.tbl (file_format => 'MYPIPEFORMAT') n ;

-- N_KEY can be the source for NATION_KEY in our target table. However,
-- we only have a region key, not a region name. Also, we need to
-- provide a region code that consists of the first two letters of the
-- region name. Finally, N_NAME can be the source for NATION. The
-- problem is that it is the second column in the file, but it needs to
-- go into the fourth column in the table.
-- Fortunately, Snowflake allows us to insert columns in a different
-- order than they exist in the file. Also, we can use functions and
-- CASE WHEN statements to transform the data into the format we need it
-- to be in. The query below does that for us.

-- 5.1.9 Execute the statement below.
```

The 'Results' tab displays a table with the following data:

	N_KEY	N_NAME	R_KEY	N_COMMENT
1	0	ALGERIA	0	haggle, carefully final deposits detect slyly agai
2	1	ARGENTINA	1	ai foxes promise slyly according to the regular accounts. bold requests
3	2	BRAZIL	1	y alongside of the pending deposits. carefully special packages are ab
4	3	CANADA	1	eat hang ironic, silent packages. slyly regular packages are furiously o
5	4	EGYPT	4	y above the carefully unusual theodolites. final dugouts are quickly acr
6	5	ETHIOPIA	0	ven packages wake quickly, regu
7	6	FRANCE	3	refully final requests. regular, ironi
8	7	GERMANY	3	l platelets. regular accounts x-ray: unusual, regular acco
9	8	INDIA	2	ss excuses cajole slyly across the packages. deposits print aroun

The 'Query Details' panel on the right shows a query duration of 333ms and 25 rows returned. The 'status' bar at the bottom shows '100% filled'.

5.1.9 Running a CASE WHEN QUERY to transform the r_key column to region

The screenshot shows the Snowflake web interface. The top navigation bar includes the URL `app.snowflake.com/sfedu02/yzb42236/wcOnHfQwziY#query` and several tabs for different tutorials. The left sidebar lists various databases, with `CHIPMUNK_DB` selected. The main panel displays a SQL query in the `CHIPMUNK_DB.CHIPMUNK_TRANSFORM` schema. The query is a `SELECT * FROM nation;` statement. Below the query, the 'Results' tab is active, showing a table with 9 rows. The table has columns: `NATION_KEY`, `REGION`, `REGION_CODE`, `NATION`, and `COMMENTS`. The results show data for regions like AFRICA, AMERICA, MIDDLE EAST, and ASIA. On the right side of the results, there is a 'Query Details' panel showing a query duration of 96ms and 25 rows. Below this, there is a bar chart for `NATION_KEY` and an 'Ask Copilot' button.

```
158
159
160 --           In the result pane, you should see a row that says status = LOADED
161 --           and rows_loaded = 25. If you do, the load was successful.
162
163 -- 5.1.11 Run the SELECT statement below to view the contents of the NATION
164 --           table.
165
166
167 | SELECT * FROM nation;
168
169
170 --           You should have 25 rows of data in your table.
171
172 -- 5.1.12 Suspend and resize the virtual warehouse.
173
```

	NATION_KEY	REGION	REGION_CODE	NATION	COMMENTS
1	0	AFRICA	AF	ALGERIA	haggle. carefully final deposits detec
2	1	AMERICA	AM	ARGENTINA	al foxes promise slyly according to th
3	2	AMERICA	AM	BRAZIL	y alongside of the pending deposits. c
4	3	AMERICA	AM	CANADA	eas hang ironic, silent packages. slyly
5	4	MIDDLE EAST	MI	EGYPT	y above the carefully unusual theodol
6	5	AFRICA	AF	ETHIOPIA	ven packages wake quickly. regu
7	6	EUROPE	EU	FRANCE	refully final requests. regular, ironi
8	7	EUROPE	EU	GERMANY	I platelets. regular accounts x-ray: unc
9	8	ASIA	AS	INDIA	ss excuses cajole slyly across the pac

Query Details

- Query duration: 96ms
- Rows: 25
- Query ID: 01b8a427-0004-3f5c-0...

Show more

NATION_KEY

Ask Copilot