Amrit Pandey

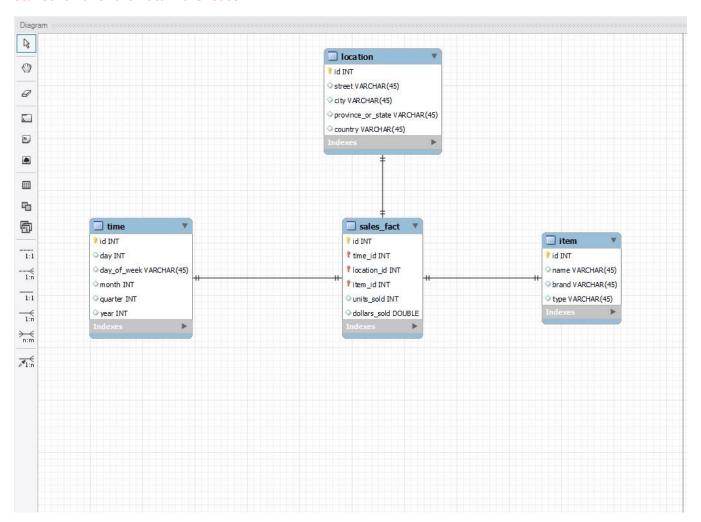
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MCA, SEM II, YEAR II

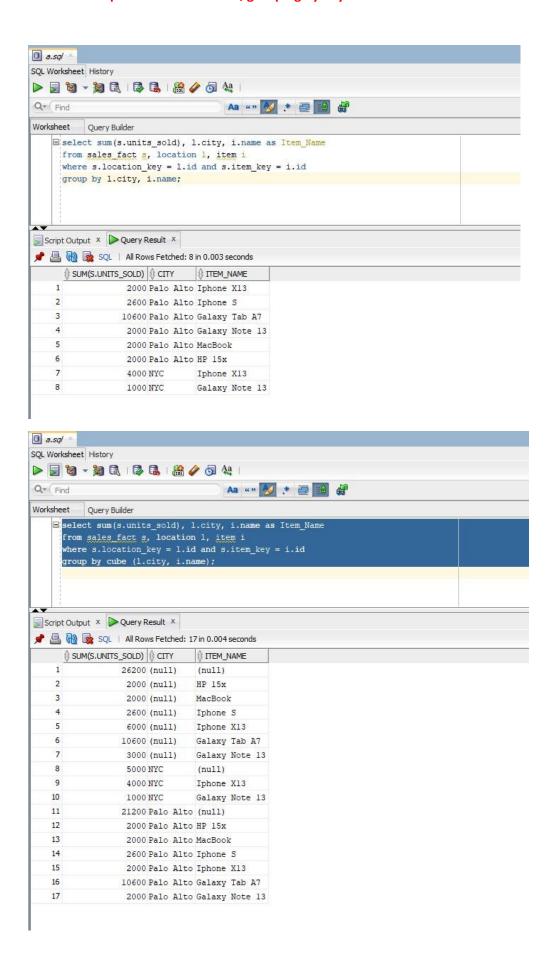
Knowledge Engineering Lab

Solution 1

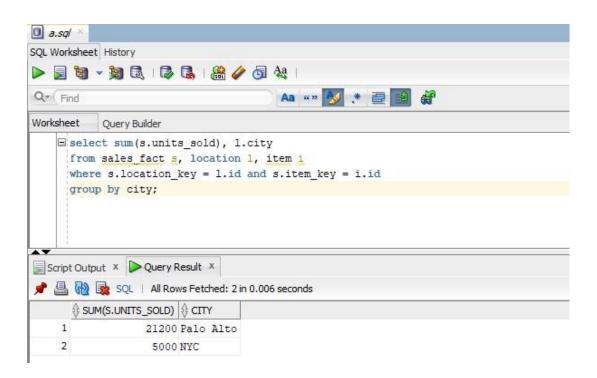
Star Schema for the Data Warehouse:

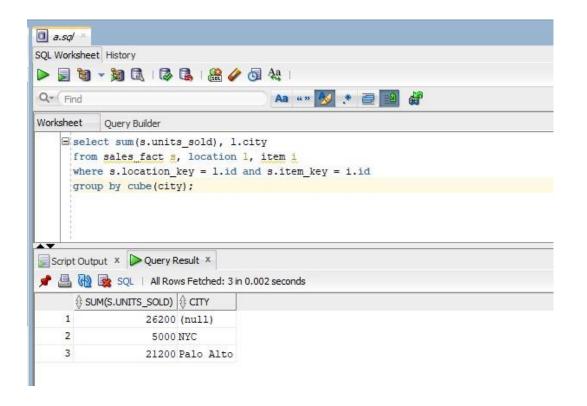


a. "Compute the sum of sales, grouping by city and item.

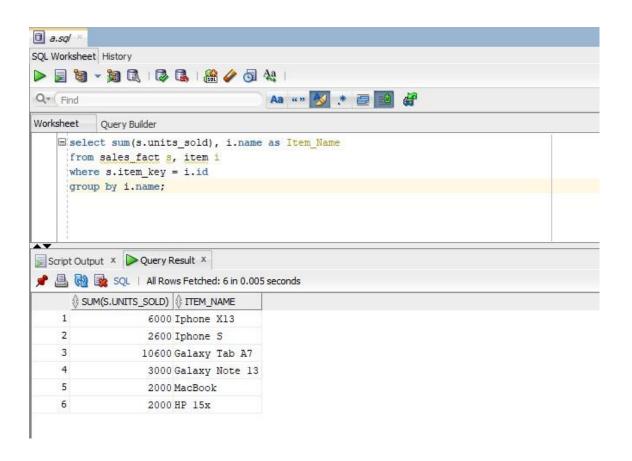


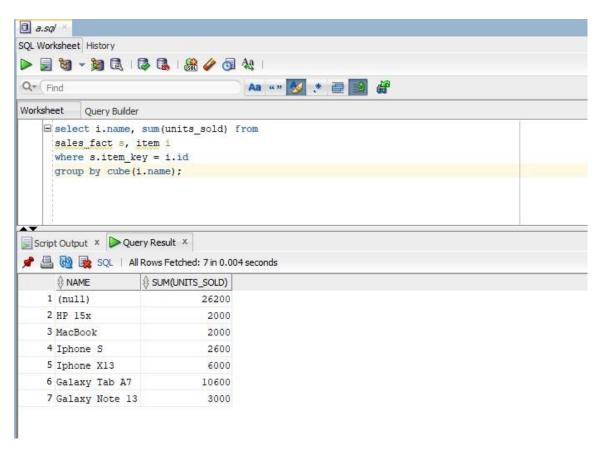
a. "Compute the sum of sales, grouping by city.





b. "Compute the sum of sales, grouping by item.





d. What is the maximum number of cells in base cuboid?

Ans: Maximum number of cells in base cuboid =

Values of Date * Values of Game * Values of Spectator * Values of Location

= 21,600

e. What is the minimum number of cells in base cuboid?

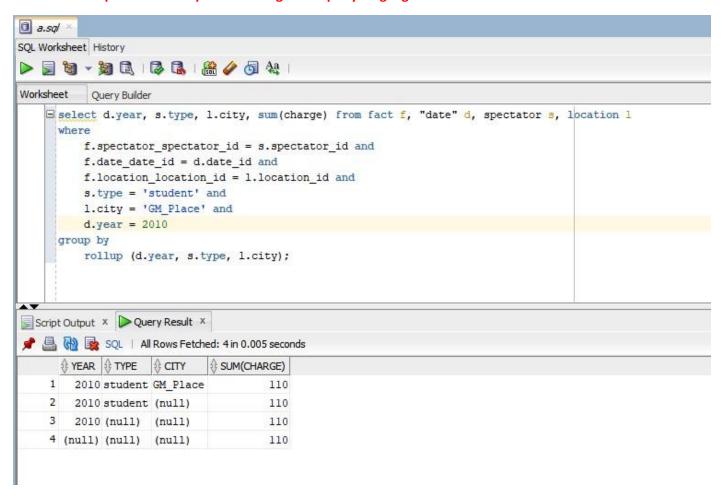
Ans: Minimum number of cells in base cuboid =

- = Maximum(Values of Date, Values of Game, Values of Spectator, Values of Location)
- = Maximum((30 * 12 * 10), 1, 3, 2))
- = 3600

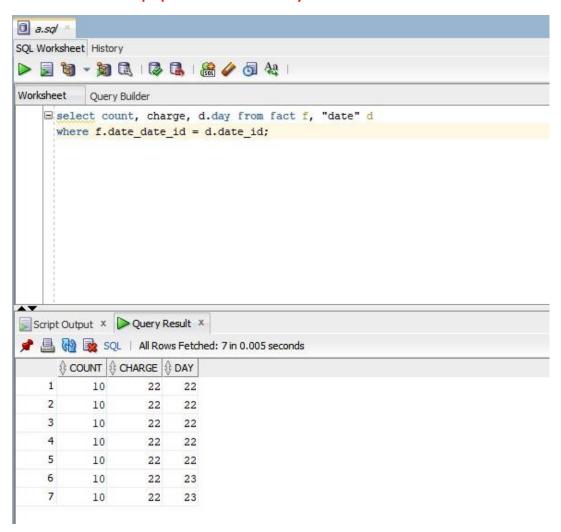
i.e. atleast 3600 tuples are needed to store all distinct values of date.

Solution 2

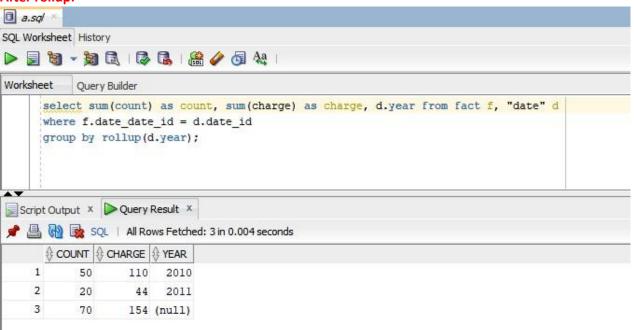
a. And implement that operation using OLAP query language.



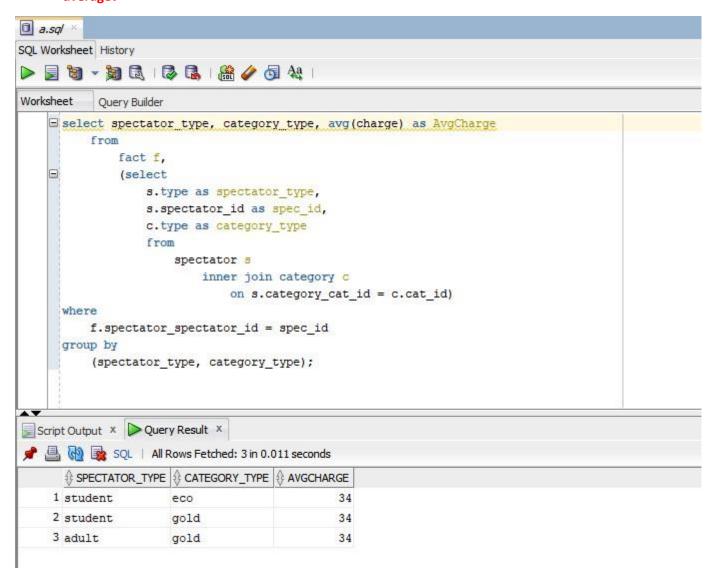
b. Perform rollup operation from date to year



After rollup:



c. What is the average charge paid by students, adults and seniors in each category you need to compute average?



d. Draw the snowflake schema diagram for the data warehouse.

