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Class: TE3

Batch: D

Roll No: 72

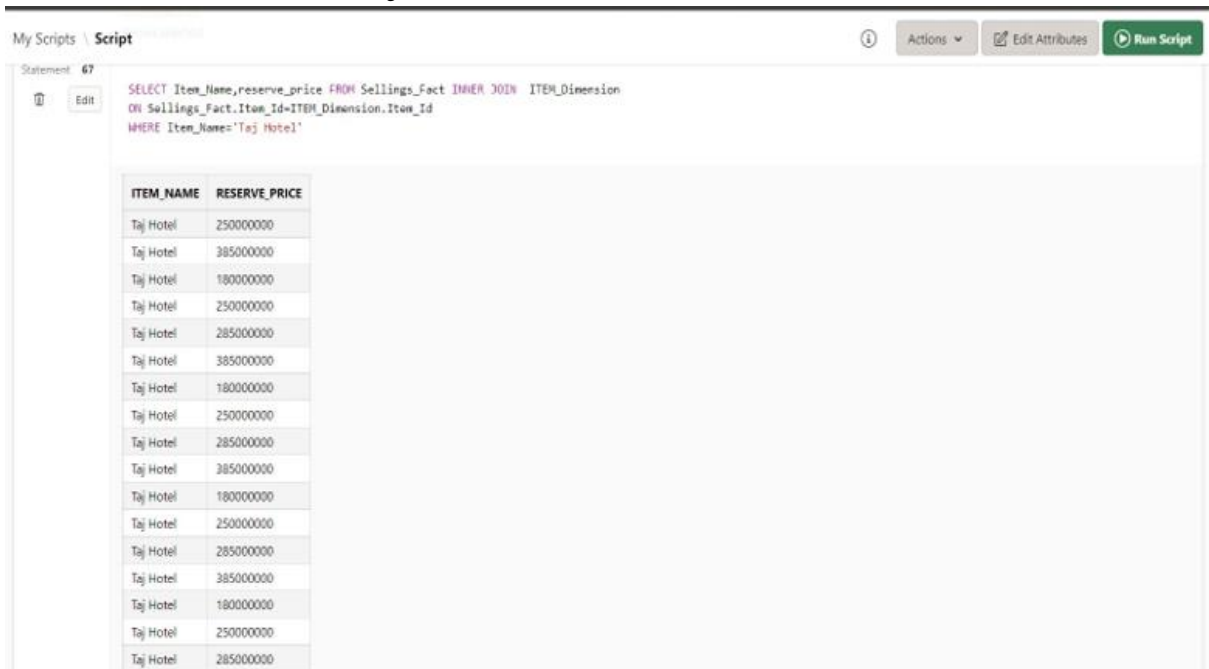
Date: 23/08/21

Experiment -3

Aim: Implementation of OLAP Operations: Slice, Dice, Rollup, Drilldown and Pivot based on experiment 1 case study.

1. Slice

```
SELECT Item_Name, reserve_price FROM Sellings_Fact INNER JOIN  
ITEM_Dimension  
ON Sellings_Fact.Item_Id=ITEM_Dimension.Item_Id  
WHERE Item_Name='Taj Hotel';
```



The screenshot shows a SQL script execution interface. At the top, there's a header bar with 'My Scripts' and 'Script' tabs, and buttons for 'Actions', 'Edit Attributes', and 'Run Script'. Below the header, the SQL query is displayed in a text area. The query is:
`SELECT Item_Name, reserve_price FROM Sellings_Fact INNER JOIN ITEM_Dimension
ON Sellings_Fact.Item_Id=ITEM_Dimension.Item_Id
WHERE Item_Name='Taj Hotel';`
Below the query, the results are shown in a table with two columns: 'ITEM_NAME' and 'RESERVE_PRICE'. The table contains 15 rows, all with 'Taj Hotel' in the first column and various reserve prices in the second column.

ITEM_NAME	RESERVE_PRICE
Taj Hotel	250000000
Taj Hotel	385000000
Taj Hotel	180000000
Taj Hotel	250000000
Taj Hotel	285000000
Taj Hotel	385000000
Taj Hotel	180000000
Taj Hotel	250000000
Taj Hotel	285000000
Taj Hotel	385000000
Taj Hotel	180000000
Taj Hotel	250000000
Taj Hotel	285000000
Taj Hotel	385000000
Taj Hotel	180000000
Taj Hotel	250000000
Taj Hotel	285000000

2. Dice

```
SELECT Item_Name,reserve_price FROM ((ITEM_Dimension INNER JOIN  
Sellings_Fact  
ON Sellings_Fact.Item_Id=ITEM_Dimension.Item_Id) JOIN Time_Dimension  
ON Sellings_Fact.Time_Id=Time_Dimension.Time_Id)  
WHERE Item_Name='Taj Hotel' AND QUARTER='Q1';
```

My Scripts \ Script

Taj Hotel	285000000
Taj Hotel	180000000
Taj Hotel	250000000
Taj Hotel	285000000
Taj Hotel	385000000
Taj Hotel	180000000
Taj Hotel	250000000
Taj Hotel	285000000
Taj Hotel	385000000
Taj Hotel	180000000
Taj Hotel	250000000
Taj Hotel	285000000
Taj Hotel	385000000
Taj Hotel	180000000
Taj Hotel	250000000
Taj Hotel	285000000
Taj Hotel	385000000
Taj Hotel	180000000
Taj Hotel	250000000
Taj Hotel	285000000
Taj Hotel	385000000

[Download CSV](#)
Rows 1 - 50. More rows exist.

[illegible]

```
SELECT year,SUM(reserve_price) FROM (Sellings_Fact NATURAL JOIN
ITEM_Dimension) JOIN Time_Dimension ON
Sellings_Fact.Time_Id=Time_Dimension.Time_Id
WHERE Item_Name='Taj Hotel' GROUP BY year;
```

My Scripts | Script Download CSV 1/1 Rows selected Actions Edit Attributes Run Script

Statement 70

`SELECT year,SUM(reserve_price) FROM (Sellings_Fact NATURAL JOIN ITEM_Dimension) JOIN Time_Dimension ON Sellings_Fact.Time_Id=Time_Dimension.Time_Id WHERE Item_Name='Taj Hotel' GROUP BY year`

YEAR	SUM(RESERVE_PRICE)
2021	17600000000

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4. Drilldown

SELECT quarter,SUM(reserve_price) FROM (Sellings_Fact NATURAL JOIN
ITEM_Dimension) JOIN Time_Dimension ON
Sellings_Fact.Time_Id=Time_Dimension.Time_Id

WHERE Item_Name='Taj Hotel' GROUP BY quarter;

Statement 71



Edit

```
SELECT quarter,SUM(reserve_price) FROM (Sellings_Fact NATURAL JOIN ITEM_Dimension) JOIN Time_Dimension ON Sellings_Fact.Time_Id=Time_Dimension.Time_Id
WHERE Item_Name='Taj Hotel' GROUP BY quarter
```

QUARTER	SUM(RESERVE_PRICE)
Q1	6880000000
Q2	4560000000
Q3	6160000000

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3 rows selected.

5. Pivot

```
SELECT reserve_price,Item_Name,Description FROM Sellings_Fact
INNER JOIN ITEM_Dimension
ON Sellings_Fact.Item_Id=ITEM_Dimension.Item_Id
WHERE Item_Name='Taj Hotel';
```

My Session

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1 hour 10 minutes



Actions

Reset Session

Save

Statement 72



```
SELECT reserve_price,Item_Name,Description FROM Sellings_Fact INNER JOIN ITEM_Dimension
ON Sellings_Fact.Item_Id=ITEM_Dimension.Item_Id
WHERE Item_Name='Taj Hotel'
```

RESERVE_PRICE	ITEM_NAME	DESCRIPTION
180000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
285000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
250000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
385000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
250000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
285000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
180000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
285000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
180000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
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180000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
250000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
385000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
250000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
385000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.

My Session

Download CSV



Actions

Reset Session

Save

180000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
285000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
250000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
285000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
385000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
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250000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
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385000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
180000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
250000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
285000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
385000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
180000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
250000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
285000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
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285000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
385000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.
180000000	Taj Hotel	It is one of the famous hotel in central part of mumbai.

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