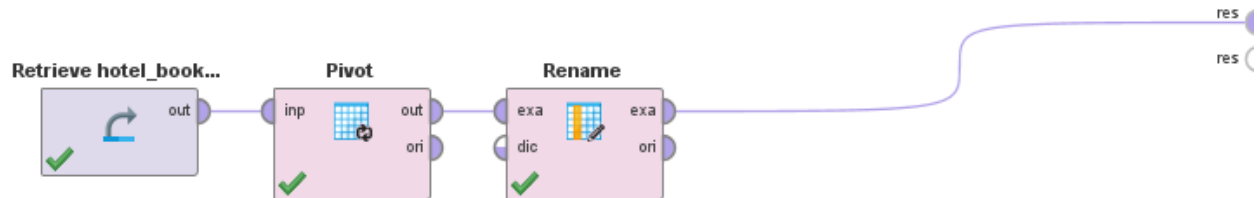


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Semester 6

Lab Submission 07

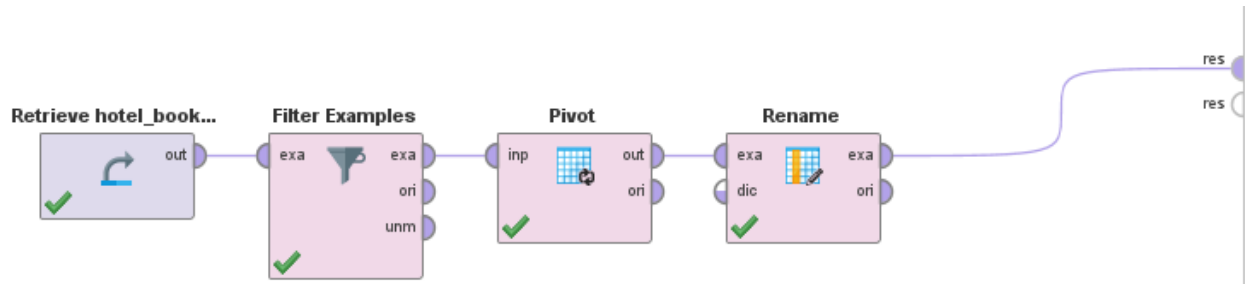
Instructor: Basit Ali

1. How many bookings in each hotel are cancelled or not?



Row No.	hotel	Not Cancelled	Cancelled
1	Resort Hotel	28938	11122
2	City Hotel	46228	33102

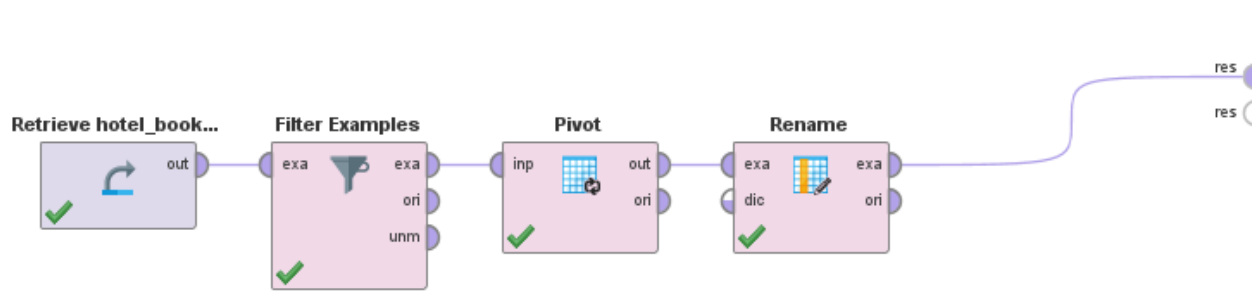
2. Number of active bookings in each hotel per year?



Row No.	hotel	2015	count(is_canceled)_2016	2017
1	Resort Hotel	6176	13637	9125
2	City Hotel	7678	22733	15817

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3. How many guests were repeated in each hotel per year?

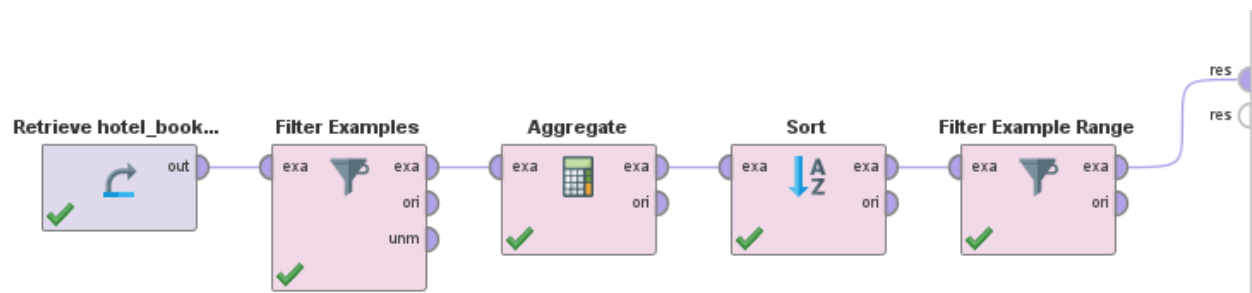


Row No.	hotel	2015	count(is_repeated_guest)_2016	2017
1	Resort Hotel	134	863	781
2	City Hotel	507	915	610

- In 2015, repeated customers of Resort Hotel were less than City Hotel
- In 2016, repeated customers of Resort Hotel were less than City Hotel
- In 2017, repeated customers of City hotel were more than Resort Hotel.

So it is concluded that in 2015 and 2016, the performance of City hotel was more while in 2017, Resort Hotel also improved their performance.

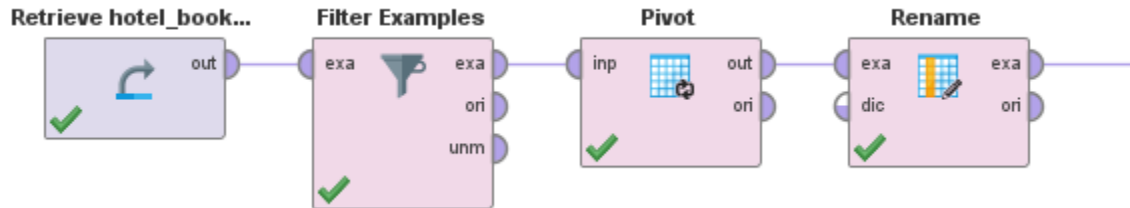
4. In which country, maximum number of customers did cancellation?



Row No.	country	count(is_canceled)
1	PRT	27519

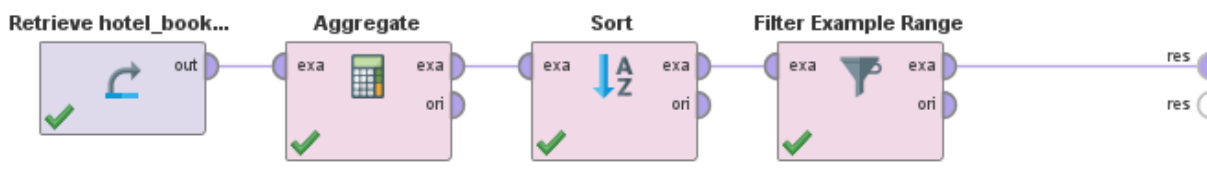
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5. Show the reservation status for each market segment.



Row No.	market_segment	Canceled	Check-Out
1	Direct	1722	10672
2	Corporate	916	4303
3	Online TA	20148	35738
4	Offline TA/TO	8080	15908
5	Complementary	85	646
6	Groups	12023	7714
7	Aviation	41	185

6. Show top five rooms that have maximum bookings.



Row No.	reserved_room_type	count(reserved_room_type)
1	A	85994
2	D	19201
3	E	6535
4	F	2897
5	G	2094

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