|  |
| --- |
|  |
|  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| REVISION HISTORY | | | | | |
| Ver. | Description of Change | Author | Date | Approved | |
| Name | Effective Date |
| 1.0 | Initial status | Olga\_Hilko | 05-DEC-2017 |  |  |

Contents

[1. Business Task – Performance of STAR Scheme 3](#_Toc500256043)

[1.1. BL\_3NF 3](#_Toc500256044)

[1.2. DM\_BL 3](#_Toc500256045)

[1.3. Comparison 4](#_Toc500256046)

# Business Task – Performance of STAR Scheme

## BL\_3NF

select ct.DESCRIPTION "Тип покупателя",

case when r.Region\_name is null then 'Республика Беларусь' else r.Region\_name end "Pегион",

ft.RUS\_TYPE "Тип топлива", trunc(sum(p.price)) "Выручка"

from BL\_3NF.CE\_PAYMENT p

left join BL\_3NF.CE\_PAYMENT\_Type pt on pt.ID\_SEQUENCE= p.ID\_PAyment\_type

left join BL\_3NF.CE\_CUSTOMER c ON c.ID\_CUSTOMER=p.ID\_CUSTOMER

left JOIN BL\_3NF.CE\_CUSTOMER\_TYPE ct on ct.ID\_CUSTOMER\_TYPE=c.ID\_CUSTOMER\_TYPE

left join BL\_3NF.CE\_FUEL\_Type ft on ft.ID\_SEQUENCE=p.ID\_FUEL\_CODE

left join BL\_3NF.CE\_AZS a on a.ID\_STATION=p.ID\_STATION

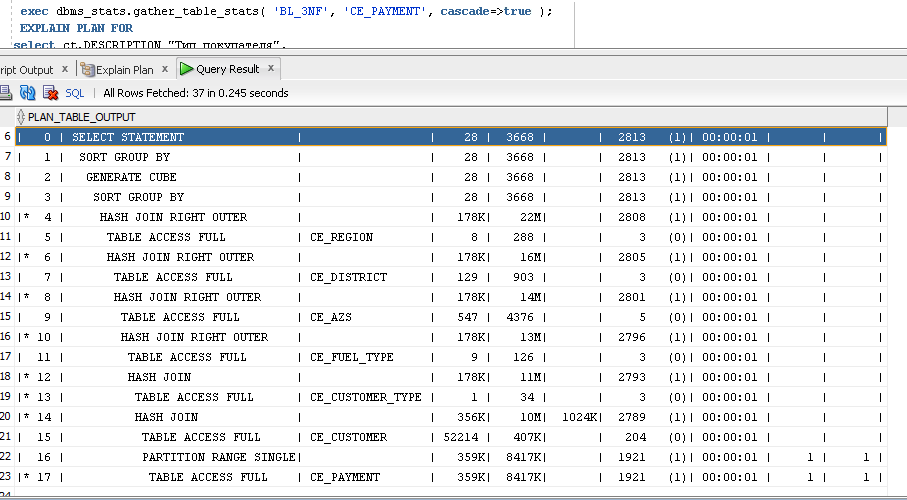
left join BL\_3NF.CE\_DISTRICT d on d.ID\_DISTRICT = a.ID\_DISTRICT left JOIN BL\_3NF.CE\_REGION r ON r.id\_region = d.id\_region

where p.PAYMENT\_DATE between to\_date('01/01/2005','mm/dd/yyyy') and to\_date('01/01/2015','mm/dd/yyyy')

and ct.DESCRIPTION='Юридические лица'

GROUP BY cube(ct.DESCRIPTION, ft.RUS\_TYPE , case when r.Region\_name is null then 'Республика Беларусь' else r.Region\_name end)

order by 1,2,3

;

## DM\_BL

select

c.CUSTOMER\_TYPE\_DESCRIPTION "Тип покупателя", a.Region\_name "Назв. региона",

ft.RUS\_TYPE "Тип топлива", trunc(sum(p.price)) "Выручка"

from BL\_DM.FCTPAYMENT p

inner join BL\_DM.DIMPAYMENT\_Type pt on pt.PAYMENT\_TYPE\_SURR\_ID=p.ID\_PAYMENT\_TYPE

inner join BL\_DM.DIMCUSTOMER c ON c.CUSTOMER\_SURR\_ID=p.ID\_CUSTOMER

inner join BL\_DM.DIMFUEL\_Type ft on ft.FUEL\_TYPE\_SURR\_ID=p.ID\_FUEL\_TYPE

inner join BL\_DM.DIMAZS a on a.AZS\_SURR\_ID=p.ID\_STATION

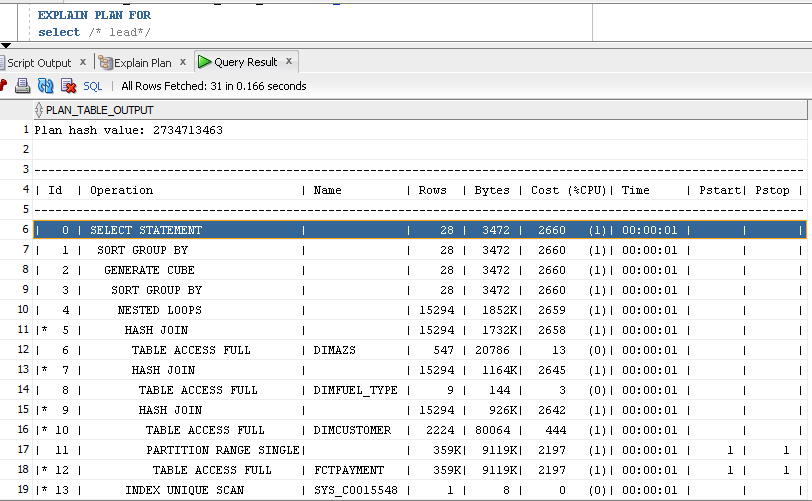
inner join BL\_DM.DIMDATE d on trunc(p.PAYMENT\_DATE)=d.DATE\_ID

where p.PAYMENT\_DATE between to\_date('01/01/2005','mm/dd/yyyy') and to\_date('01/01/2015','mm/dd/yyyy')

and c.CUSTOMER\_TYPE\_DESCRIPTION='Юридические лица'

GROUP BY cube(c.CUSTOMER\_TYPE\_DESCRIPTION, ft.RUS\_TYPE ,a.Region\_name)

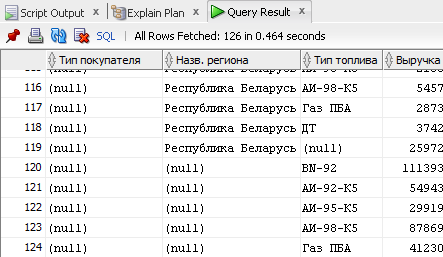
order by 1,2,3;



## Comparison

Cost: DM 2660 против 3NF 2813; и время выполнения DM 0.464сек против 3NF 0,521 сек. на фактовой таблице в 1 млн записей.

DM



3NF