

## Annexe A

# Charge utilisée pour l'expérimentation de notre stratégie de sélection d'index

- 1 `select sales.time_id, sum(quantity_sold), sum (amount_sold) from sales, times where sales.time_id = times.time_id and times.fiscal_year in ('1998','2000') group by sales.time_id`
- 2 `select sales.time_id, sum(quantity_sold), sum (amount_sold) from sales, times where sales.time_id = times.time_id and times.fiscal_year ='2000' group by sales.time_id`
- 3 `select sales.time_id, sum(quantity_sold), sum (amount_sold) from sales, times where sales.time_id = times.time_id and times.fiscal_year ='1996' group by sales.time_id`
- 4 `select sales.time_id, sum(quantity_sold), sum (amount_sold) from sales, times where sales.time_id = times.time_id and times.fiscal_year ='1998' group by sales.time_id`
- 5 `select sales.time_id, sum(quantity_sold), sum (amount_sold) from sales, times where sales.time_id = times.time_id and times.fiscal_year ='1999' group by sales.time_id`
- 6 `select sales.prod_id, avg (amount_sold) from sales, products, promotions where sales.prod_id = products.prod_id and sales.promo_id = promotions.promo_id and promotions.promo_category ='newspaper' and products.prod_category ='Women' group by sales.prod_id`
- 7 `select sales.prod_id, avg (amount_sold) from sales, products, promotions where sales.prod_id = products.prod_id and sales.promo_id = promotions.promo_id and promotions.promo_category ='newspaper' group by sales.prod_id`
- 8 `select sales.prod_id, avg (amount_sold) from sales, products, promotions where sales.prod_id = products.prod_id and sales.promo_id = promotions.promo_id and promotions.promo_category ='post' group by sales.prod_id`

9    select sales.prod\_id, avg (amount\_sold) from sales, products, promotions where sales.prod\_id =  
products.prod\_id and sales.promo\_id = promotions.promo\_id and promotions.promo\_category  
='flyer' group by sales.prod\_id

10   select sales.prod\_id, avg (amount\_sold) from sales, products, promotions where sales.prod\_id = pro-  
ducts.prod\_id and sales.promo\_id = promotions.promo\_id and promotions.promo\_category ='TV'  
group by sales.prod\_id

11   select sales.prod\_id, avg (amount\_sold) from sales, products, promotions where sales.prod\_id = pro-  
ducts.prod\_id and sales.promo\_id = promotions.promo\_id and promotions.promo\_category ='TV'  
group by sales.prod\_id

12   select sales.prod\_id, count (\*) from sales, products, times where sales.prod\_id = products.prod\_id  
and sales.time\_id = times.time\_id and times.fiscal\_year ='1996' group by sales.prod\_id order by  
sales.prod\_id

13   select sales.time\_id, sum(quantity\_sold), sum (amount\_sold) from sales, times where sales.time\_id  
= times.time\_id and times.fiscal\_year ='1999' group by sales.time\_id

14   select sales.prod\_id, avg (amount\_sold) from sales, products, promotions where sales.prod\_id = pro-  
ducts.prod\_id and sales.promo\_id = promotions.promo\_id and promotions.promo\_category ='in-  
ternet' and products.prod\_category ='Women' group by sales.prod\_id

15   select sales.prod\_id, avg (amount\_sold) from sales, products, promotions where sales.prod\_id =  
products.prod\_id and sales.promo\_id = promotions.promo\_id and promotions.promo\_category  
='post' group by sales.prod\_id

16   select sales.time\_id, sum (quantity\_sold) from sales, products, times where sales.prod\_id =  
products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year ='1999' group by  
sales.time\_id

17   select sales.prod\_id, sum(sales.quantity\_sold) from sales, channels, products where sales.prod\_id =  
products.prod\_id and sales.channel\_id = channels.channel\_id and channels.channel\_desc ='Inter-  
net' and products.prod\_category ='Women' group by sales.prod\_id

18   select sales.channel\_id, sum(sales.quantity\_sold), sum(sales.amount\_sold) from sales, channels,  
products where sales.prod\_id = products.prod\_id and sales.channel\_id = channels.channel\_id  
and channels.channel\_desc ='Internet' and products.prod\_category ='Women' group by  
sales.channel\_id

19   select sales.channel\_id, sum(sales.quantity\_sold), sum(sales.amount\_sold) from sales, channels,  
products where sales.prod\_id = products.prod\_id and sales.channel\_id = channels.channel\_id  
and channels.channel\_desc ='Catalog' and products.prod\_category ='Women' group by  
sales.channel\_id

20   select sales.channel\_id, sum(sales.quantity\_sold), sum(sales.amount\_sold) from sales, channels, pro-  
ducts where sales.prod\_id = products.prod\_id and sales.channel\_id = channels.channel\_id and  
channels.channel\_desc ='Partners' and products.prod\_category ='Men' group by sales.channel\_id

21   select sales.channel\_id, sum(sales.quantity\_sold), sum(sales.amount\_sold) from sales, channels, pro-  
ducts where sales.prod\_id = products.prod\_id and sales.channel\_id = channels.channel\_id and  
channels.channel\_desc ='Partners' and products.prod\_category ='Boys' group by sales.channel\_id

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22 select sales.channel\_id, sum(sales.quantity\_sold), sum(sales.amount\_sold) from sales, channels, products where sales.prod\_id = products.prod\_id and sales.channel\_id = channels.channel\_id and channels.channel\_desc = 'Catalog' and products.prod\_category = 'Girls' group by sales.channel\_id

23 select sales.channel\_id, sum(sales.quantity\_sold), sum(sales.amount\_sold) from sales, channels, products where sales.prod\_id = products.prod\_id and sales.channel\_id = channels.channel\_id and channels.channel\_desc = 'Internet' and products.prod\_category = 'Women' group by sales.channel\_id

24 select sales.prod\_id, sum(sales.quantity\_sold), sum(sales.amount\_sold) from sales, channels, products where sales.prod\_id = products.prod\_id and sales.channel\_id = channels.channel\_id and channels.channel\_desc = 'Internet' group by sales.prod\_id

25 select sales.cust\_id, avg(quantity\_sold) from sales, customers where sales.cust\_id = customers.cust\_id and customers.cust\_gender='M' group by sales.cust\_id

26 select sales.cust\_id, avg(quantity\_sold) from sales, customers where sales.cust\_id = customers.cust\_id and customers.cust\_gender='F' group by sales.cust\_id

27 select sales.cust\_id, avg(quantity\_sold) from sales, customers where sales.cust\_id = customers.cust\_id and customers.cust\_gender='M' group by sales.cust\_id

28 select sales.cust\_id, avg(quantity\_sold) from sales, customers where sales.cust\_id = customers.cust\_id and customers.cust\_gender='F' group by sales.cust\_id

29 select sales.cust\_id, avg(quantity\_sold) from sales, customers where sales.cust\_id = customers.cust\_id and customers.cust\_gender='F' group by sales.cust\_id

30 select sales.cust\_id, avg(quantity\_sold) from sales, customers where sales.cust\_id = customers.cust\_id and customers.cust\_gender='M' group by sales.cust\_id

31 select sales.cust\_id, avg(amount\_sold) from sales, customers, products, times where sales.cust\_id = customers.cust\_id and sales.prod\_id = products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year = '2000' and customers.cust\_marital\_status = 'married' and products.prod\_category = 'Women' group by sales.cust\_id

32 select sales.cust\_id, avg(amount\_sold) from sales, customers, products, times where sales.cust\_id = customers.cust\_id and sales.prod\_id = products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year = '2000' and customers.cust\_marital\_status = 'single' and products.prod\_category = 'Women' group by sales.cust\_id

33 select sales.cust\_id, avg(amount\_sold) from sales, customers, products, times where sales.cust\_id = customers.cust\_id and sales.prod\_id = products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year = '2000' and customers.cust\_marital\_status = 'married' and products.prod\_category = 'Women' group by sales.cust\_id

34 select sales.cust\_id, avg(amount\_sold) from sales, customers, products, times where sales.cust\_id = customers.cust\_id and sales.prod\_id = products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year = '2000' and customers.cust\_marital\_status = 'married' and products.prod\_category = 'Women' group by sales.cust\_id

35 select sales.cust\_id, avg(amount\_sold) from sales, customers, products, times where sales.cust\_id = customers.cust\_id and sales.prod\_id = products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year = '2000' and customers.cust\_marital\_status = 'married' and products.prod\_category = 'Men' group by sales.cust\_id

- 36 select sales.cust\_id, avg(amount\_sold) from sales, customers, products, times where sales.cust\_id = customers.cust\_id and sales.prod\_id = products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year = '2000' and customers.cust\_marital\_status = 'married' and products.prod\_category = 'Women' group by sales.cust\_id
- 37 select sales.cust\_id, avg(amount\_sold) from sales, customers, products, times where sales.cust\_id = customers.cust\_id and sales.prod\_id = products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year = '1999' and customers.cust\_marital\_status = 'single' and products.prod\_category = 'Women' group by sales.cust\_id
- 38 select sales.cust\_id, avg(amount\_sold) from sales, customers, products, times where sales.cust\_id = customers.cust\_id and sales.prod\_id = products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year = '2000' and customers.cust\_marital\_status = 'married' and products.prod\_category = 'Men' group by sales.cust\_id
- 39 select sales.cust\_id, avg(amount\_sold) from sales, customers, products, times where sales.cust\_id = customers.cust\_id and sales.prod\_id = products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year = '1998' and customers.cust\_marital\_status = 'married' and products.prod\_category = 'Men' group by sales.cust\_id
- 40 select sales.cust\_id, avg(amount\_sold) from sales, customers, products, times where sales.cust\_id = customers.cust\_id and sales.prod\_id = products.prod\_id and sales.time\_id = times.time\_id and times.fiscal\_year = '2000' and customers.cust\_marital\_status = 'single' and products.prod\_category = 'Women' group by sales.cust\_id