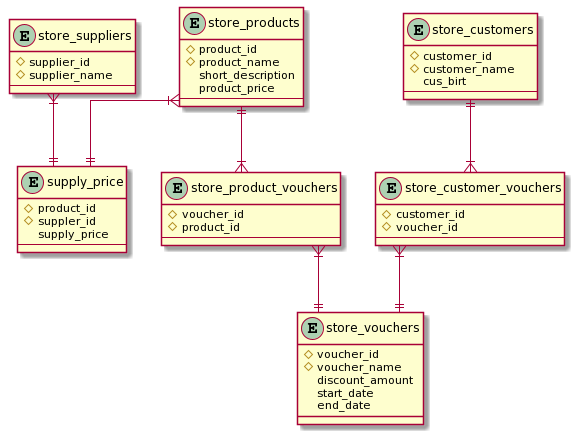
**Задание на защиту**

Диаграмма отношений сущность:

Рис. 1



Ссылка на приложения:

<https://github.com/ThuyHienDo/Oracle-SQL/blob/main/lab1-2/lab1-2new.txt>

1. Что значит ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW?

UNBOUNDED PRECEDING – все предыдущие записи

CURRENT ROW – отображение текущей строки

ROWS BETWEEN UNBOUNDED PRECEDING AND CURRENT ROW значит ограничение по всем предыдущим строкам и текущей.

2. Выведите для каждого клиента (customer\_name):

а. Скидку в процентах по самому лучшему из купонов, действующих на в данный момент:

SELECT store\_customers.cus\_n,

2 MAX(store\_vouchers.discount\_amount) as highest\_discount

3 FROM store\_customers

4 INNER JOIN store\_customer\_vouchers ON store\_customer\_vouchers.customer\_id=store\_customers.customer\_id

5 INNER JOIN store\_vouchers ON store\_vouchers.voucher\_id=store\_customer\_vouchers.voucher\_id

6 WHERE store\_vouchers.start\_date = '01-MAY-21'

7 GROUP BY store\_customers.cus\_n;

б. Общее колическтво действующих купонов у него на руках:

SELECT store\_customers.cus\_n,

2 COUNT(store\_customer\_vouchers.voucher\_id) as NUM\_OF\_VOUCHERs

3 FROM store\_customers

4 INNER JOIN store\_customer\_vouchers ON store\_customer\_vouchers.customer\_id=store\_customers.customer\_id

5 INNER JOIN store\_vouchers ON store\_vouchers.voucher\_id=store\_customer\_vouchers.voucher\_id

6 GROUP BY store\_customers.cus\_n;

в. Стоимость самого дорогого товара с учётом скидки по купону:

Здесь получить стоимость самого дорогого товара с учётом скидки в процентах по самому лучшему из купонов, которые есть у каждого покупателя. Каждый купон можно использовать только с определенными продуктами.

WITH t1 AS (SELECT store\_customers.cus\_n,

2 (MAX(store\_products.product\_price)-(MAX(store\_vouchers.discount\_amount)\*MAX(store\_products.product\_price))) as w\_dis,

3 MAX(store\_products.product\_price) as org\_pr

4 FROM store\_customers

5 INNER JOIN store\_customer\_vouchers ON store\_customer\_vouchers.customer\_id=store\_customers.customer\_id

6 INNER JOIN store\_vouchers ON store\_vouchers.voucher\_id=store\_customer\_vouchers.voucher\_id

7 INNER JOIN store\_product\_vouchers ON store\_product\_vouchers.voucher\_id=store\_vouchers.voucher\_id

8 INNER JOIN store\_products ON store\_products.product\_id=store\_product\_vouchers.product\_id

9 GROUP BY store\_customers.cus\_n),

10 t3 AS (SELECT product\_name,product\_price FROM store\_products)

11 SELECT t1.cus\_n,t3.product\_name,t1.w\_dis

12 FROM t1 INNER JOIN t3 ON t1.org\_pr=t3.product\_price;

г. Разность между ценой с учётом скидки и полной ценой.

WITH t1 AS (SELECT store\_customers.cus\_n,

2 (MAX(store\_products.product\_price)-(MAX(store\_vouchers.discount\_amount)\*MAX(store\_products.product\_price))) as w\_dis

3 FROM store\_customers

4 INNER JOIN store\_customer\_vouchers ON store\_customer\_vouchers.customer\_id=store\_customers.customer\_id

5 INNER JOIN store\_vouchers ON store\_vouchers.voucher\_id=store\_customer\_vouchers.voucher\_id

6 INNER JOIN store\_product\_vouchers ON store\_product\_vouchers.voucher\_id=store\_vouchers.voucher\_id

7 INNER JOIN store\_products ON store\_products.product\_id=store\_product\_vouchers.product\_id

8 GROUP BY store\_customers.cus\_n),

9 t2 AS (SELECT store\_customers.cus\_n,

10 MAX(store\_products.product\_price) as org\_pr

11 FROM store\_customers

12 INNER JOIN store\_customer\_vouchers ON store\_customer\_vouchers.customer\_id=store\_customers.customer\_id

13 INNER JOIN store\_vouchers ON store\_vouchers.voucher\_id=store\_customer\_vouchers.voucher\_id

14 INNER JOIN store\_product\_vouchers ON store\_product\_vouchers.voucher\_id=store\_vouchers.voucher\_id

15 INNER JOIN store\_products ON store\_products.product\_id=store\_product\_vouchers.product\_id

16 GROUP BY store\_customers.cus\_n),

17 t3 AS (SELECT product\_name,product\_price FROM store\_products)

18 SELECT t1.cus\_n,t3.product\_name,t1.w\_dis,t2.org\_pr,

19 (t2.org\_pr-t1.w\_dis) as diff

20 FROM t1

21 INNER JOIN t2 ON t1.cus\_n=t2.cus\_n

22 INNER JOIN t3 ON t2.org\_pr=t3.product\_price;