

QUERIES

Team 11 (Mihir, Mohsin, Dhruval)

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mihir@mihir-ThinkPad-T450s: ~/5th_semester/CS301_DBMS/DBMS

QUERY 1 ) select all product details
product_id | supplier_id | price | rating | description | type
-----
1 | 1 | 200.00 | 4.5 | Description1 | game
2 | 1 | 1000.00 | 3.5 | Description2 | accessory
3 | 2 | 800.00 | 4.0 | Description3 | accessory
4 | 4 | 275.00 | 4.2 | Description4 | game
5 | 2 | 0.00 | 4.8 | Description5 | game
6 | 5 | 350.00 | 3.0 | Description6 | accessory
7 | 3 | 800.00 | 3.8 | Description7 | game
(7 rows)

QUERY 2 ) select all user details
user_id | first_name | last_name | e_mail | phone
-----
1 | Fane1 | Lname1 | mohalk@gmail.com | 7825780817
2 | Fane2 | Lname2 | mohalk@gmail.com | 7825780817
3 | Fane3 | Lname3 | mohalk@gmail.com | 7825780817
4 | Fane4 | Lname4 | mohalk@gmail.com | 7825780817
5 | Fane5 | Lname5 | mohalk@gmail.com | 7825780817
6 | Fane6 | Lname6 | mohalk@gmail.com | 7825780817
7 | Fane7 | Lname7 | mohalk@gmail.com | 7825780817
8 | Fane8 | Lname8 | mohalk@gmail.com | 7825780817
9 | Fane9 | Lname9 | mohalk@gmail.com | 7825780817
10 | Fane10 | Lname10 | mohalk@gmail.com | 7825780817
(10 rows)

QUERY 3 ) select all product suppliers for each product
supplier_name | type
-----
Supplier1 | game
Supplier1 | accessory
Supplier2 | accessory
Supplier4 | game
Supplier2 | game
Supplier5 | accessory
Supplier3 | game
(7 rows)

QUERY 4 ) select all games
type | game_name | price
-----
game | Valorant | 200.00
game | COD | 275.00
game | CSGO | 0.00
(3 rows)

QUERY 5 ) select all accessories
type | accessory_name | price
-----
```

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QUERY 5 ) select all accessories
type | accessory_name | price
-----
accessory | headphones 1 | 1000.00
accessory | keyboard 1 | 350.00
accessory | shirt 1 | 800.00
(3 rows)

QUERY 6 ) display total points in decreasing order
team_id | total_points
-----
8 | 50
6 | 40
5 | 30
3 | 15
4 | 10
7 | 10
2 | 10
1 | 1
(8 rows)

QUERY 7 ) display number of people in each team
team_id | count
-----
2 | 3
1 | 3
(2 rows)

QUERY 8 ) select users that are not in a team
user_id
-----
7
8
9
10
(4 rows)

QUERY 9 ) select all games in a cart of user 1
game_name
-----
Valorant
(1 row)

QUERY 10 ) select all accessories in a cart of user 1
accessory_name
-----
headphones 1
shirt 1
(2 rows)
```

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QUERY 11 ) display total points for each game for all teams

team_id | total_points | game_name
-----|-----|-----
1 | 1 | COD
2 | 10 | COD
3 | 15 | Valorant
4 | 10 | Valorant
(4 rows)

QUERY 12 ) find the number of games sold on payment date = XXXX

QUERY PLAN
-----
Aggregate (cost=73.45..73.46 rows=1 width=8) (actual time=0.099..0.101 rows=1 loops=1)
-> Nested Loop (cost=64.72..73.43 rows=5 width=4) (actual time=0.092..0.097 rows=1 loops=1)
-> HashAggregate (cost=64.57..64.61 rows=4 width=4) (actual time=0.074..0.076 rows=3 loops=1)
    Group Key: ci.product_id
-> Nested Loop (cost=21.97..64.56 rows=4 width=4) (actual time=0.064..0.072 rows=3 loops=1)
    Join Filter: (p.cart_id = c.cart_id)
-> Hash Join (cost=21.81..55.61 rows=42 width=12) (actual time=0.033..0.036 rows=3 loops=1)
    Hash Cond: (ci.cart_id = p.cart_id)
-> Seq Scan on cart_item ci (cost=0.00..27.00 rows=1700 width=8) (actual time=0.004..0.005 rows=3 loops=1)
-> Hash (cost=21.75..21.75 rows=5 width=4) (actual time=0.015..0.016 rows=4 loops=1)
    Buckets: 1024 Batches: 1 Memory Usage: 9kB
-> Seq Scan on payment p (cost=0.00..21.75 rows=5 width=4) (actual time=0.005..0.006 rows=4 loops=1)
    Filter: (payment_date = '2020-10-05 14:01:10'::timestamp without time zone)
-> Index Only Scan using cart_pkey on cart c (cost=0.15..0.20 rows=1 width=4) (actual time=0.010..0.010 rows=1 loops=3)
    Index Cond: (cart_id = ci.cart_id)
    Heap Fetches: 3
-> Index Only Scan using game_pkey on game g (cost=0.14..2.19 rows=1 width=4) (actual time=0.006..0.006 rows=0 loops=3)
    Index Cond: (product_id = ci.product_id)
    Heap Fetches: 1
Planning Time: 0.359 ms
Execution Time: 0.162 ms
(21 rows)

QUERY PLAN
-----
Aggregate (cost=87.15..87.16 rows=1 width=8) (actual time=0.057..0.058 rows=1 loops=1)
-> Nested Loop (cost=78.42..87.14 rows=5 width=4) (actual time=0.050..0.055 rows=1 loops=1)
-> HashAggregate (cost=78.28..78.32 rows=4 width=4) (actual time=0.043..0.045 rows=3 loops=1)
    Group Key: ci.product_id
-> Hash Semi Join (cost=46.76..78.27 rows=4 width=4) (actual time=0.040..0.043 rows=3 loops=1)
    Hash Cond: (ci.cart_id = c.cart_id)
-> Seq Scan on cart_item ci (cost=0.00..27.00 rows=1700 width=8) (actual time=0.005..0.006 rows=3 loops=1)
-> Hash (cost=46.70..46.70 rows=5 width=8) (actual time=0.030..0.030 rows=4 loops=1)
    Buckets: 1024 Batches: 1 Memory Usage: 9kB
-> Nested Loop (cost=21.92..46.70 rows=5 width=8) (actual time=0.017..0.025 rows=4 loops=1)
-> HashAggregate (cost=21.76..21.81 rows=5 width=4) (actual time=0.009..0.010 rows=4 loops=1)
    Group Key: p.cart_id
-> Seq Scan on payment p (cost=0.00..21.75 rows=5 width=4) (actual time=0.004..0.005 rows=4 loops=1)
    Filter: (payment_date = '2020-10-05 14:01:10'::timestamp without time zone)
-> Index Only Scan using cart_pkey on cart c (cost=0.15..4.97 rows=1 width=4) (actual time=0.002..0.002 rows=1 loops=4)
    Index Cond: (cart_id = p.cart_id)
    Heap Fetches: 4
-> Index Only Scan using game_pkey on game g (cost=0.14..2.19 rows=1 width=4) (actual time=0.002..0.003 rows=0 loops=3)
    Index Cond: (product_id = ci.product_id)
    Heap Fetches: 1
Planning Time: 0.343 ms
Execution Time: 0.110 ms
(22 rows)

game_paradise#
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