Project report:

Vidur Goel

team 80

2021364

Queries:

1. Selection:

SELECT * FROM Online Retail Store.orders WHERE order status='Delivered';

Relational Algebra applied here:

σ(order_status='Delivered')(Online_Retail_Store.orders)

This above mentioned query here uses the following relational algebra operation:

 σ (Selection): Selects only the tuples in the Online_Retail_Store.orders relation where the value of the order_status attribute is ' Delivered '.

2. Projection:

SELECT product name, product cost, Quantity FROM Online Retail Store.product;

Relational Algebra applied here:π(product_name,product_cost,Quantity)(Online_Retail_Store.product)

 π (Projection): what this relation does is that it will projects the product_name,product_cost,Quantity attributes of the relation Online_Retail_Store.product

3. Update:

SELECT * FROM Online Retail Store.category;

UPDATE Online Retail Store.category

SET category name='B-Series20'

WHERE category id='1'

Here we are updating the category name of a category with the category id ='1'.

4. Product and Selection:

SELECT * FROM Online_Retail_Store.delivery_boy,Online_Retail_Store.tracking_details WHERE

Online_Retail_Store.delivery_boy_id=Online_Retail_Store.tracking_details.delivery_boy_id;

Here we have used product and selection operations on relations

5. Various Boolean Operations and Selection:

SELECT * FROM Online Retail Store.product

WHERE Brand_Name='Gas Relief' OR product_name='Bagelers';Here we have used product and selection operations on relations

6. Using ALTER and various boolean operations:

ALTER TABLE Online_Retail_Store.cart ADD CONSTRAINT check_cart_cost CHECK (total_cost >= 0);

Here we are using alter operation to add the constraint that the total_cost in the cart should be greater than or equal to 0.

7. Using of join and the various Boolean operations as well as select operations:

select

Online_Retail_Store.orders.delivery_boy_id,Online_Retail_Store.orders.order_placed_time, Online_Retail_Store.orders.order_status,Online_Retail_Store.delivery_boy_delivery_boy_na me,Online_Retail_Store.delivery_boy.delivery_boy_average_rating

from Online Retail Store.orders

left join Online Retail Store.delivery boy

on Online_Retail_Store.orders.delivery_boy_id = Online Retail Store.delivery boy.delivery boy id

where Online Retail Store.orders.total cost>=190.05

8. Using of temp assignment and the various Boolean operations as well as select operations:

select del.contact number,tr.location,del.delivery boy name

from Online_Retail_Store.delivery_boy as del, Online_Retail_Store.tracking_details as tr, Online_Retail_Store.orders as o

where o.delivery boy id=del.delivery boy id and o.track id=tr.track id

:

9. Using of reassigning, count, distinct, select as well as Boolean operations in this guery

SELECT COUNT(DISTINCT pro.Brand name)

from Online_Retail_Store.product as pro, Online_Retail_Store.tracking_details as tr, Online Retail Store.orders as o

where pro.Brand name!='Tasigna';

10. USING OF SUM IN QUERY WITH REASSIGNMENT

SELECT SUM(pro.product_cost*pro.Quantity)

from Online_Retail_Store.product as pro, Online_Retail_Store.tracking_details as tr, Online_Retail_Store.orders as o;

Relational Schema:

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customer= (customer_id_,customer_name ,contact_number ,customer_username ,
customer_password ,email_id ,customer_address)
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admin=(admin id, admin name, admin username, admin password)

delivery_boy= (<u>delivery_boy_id</u>, delivery_boy_name, delivery_boy_username, delivery boy password, delivery boy average rating, contact number, email id)

category = (category id, category name, description)

product = (product id , product name, product cost, Brand name, Quantity)

dealer = (<u>dealer_id</u>, dealer_name, username, password, address_of_operations, contact_number, email_id)

product_feedback = (feedback_id, rating_given, review, likes, date_published)

coupon= (<u>coupon id</u>, coupon_expiry_date, minimum_order_value, percentage_discount, maximum discount, terms and conditions, coupon code)

cart = (cart id, total cost, description, product id, coupon id)

bill = (bill id, order summary, mode of payment)

tracking_details = (track_id, delivery_boy_id, contact_number, delivery_status, location)

orders = (<u>order id</u>, delivery_boy_id, total_cost, delivery_address, order_status, order_placed_time, expected_delivery_time, track_id)