Art Gallery

Group - 3 L

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1) Count the number of persons which visited any exhibition but didn't buy any item.

```
SELECT COUNT(cust_id) FROM (SELECT * FROM exhibition_customers
EXCEPT
(
SELECT cust_id,exhib_id FROM (exhibition_customers NATURAL JOIN orders) )
) AS d
```

2) List all the customers who visited any of the exhibitions which were conducted in 2015.

```
SELECT DISTINCT * FROM customer NATURAL JOIN
(
SELECT    cust_id FROM exhibition_customers NATURAL JOIN
(
   SELECT exhib_id from exhibitions WHERE EXTRACT(YEAR FROM
start_date)='2015'
) AS exhib_id
) AS cust_details
```

3) List all the art objects which were sold at exhibition "Samay Art Exhibition".

```
SELECT * FROM art_gallery_inventory WHERE id_obj IN
(
SELECT id_obj FROM Exhibitions NATURAL JOIN Exhibites  WHERE
Exhibites.sold_status = 'YES' AND Exhibitions.exhib_name = 'Samay Art Exhibition')
```

4) List all the customers whose budget is more than 10000.

SELECT * FROM Customer WHERE budget > 10000

5) List total shipping charge paid by art gallery to each courier company. Even list the total shipped orders of each respective company.

SELECT COURIER_COMPANY, SUM(SHIP_CHARGE), COUNT(ORDER_ID) FROM SHIPPING GROUP BY COURIER_CMPANY

6) List all the items sold away at any auction conducted by auctioneer named "Abbot Barry".

SELECT * FROM art_gallery_inventory WHERE id_obj IN
(
SELECT id_obj FROM auction_register WHERE auction_id IN
(
SELECT auct_id FROM auctions WHERE auctioneer_id=
(
SELECT auctioneer_id FROM auctioneer WHERE auctioneer_name='Abbot Barry'
)
)
)

7) Count the total number of auctions conducted by art gallery in "Gandhi Theatre".

SELECT COUNT(auct_id) FROM Auctions WHERE auction_theatre = "Gandhi Theatre"

8) List all the items which are sold at the first bid itself in any auction. (Which means all those items of auction which are sold at the start bid price itself.)

SELECT art_name,art_type FROM

art_gallery_inventory NATURAL JOIN
(
SELECT * FROM auction_register WHERE bid_start_price=bid_end_price
) AS g

9) List all the items with details which are currently available in art gallery inventory.
   (That is, the items which aren't sold either in auctions or exhibitions)

```
SELECT * FROM Art_Gallery_Inventory
EXCEPT
(SELECT * FROM Art_Gallery_Inventory AS e NATURAL JOIN (SELECT id_obj FROM
Sold_item_details
UNION
SELECT id_obj FROM auction_register
))
```

10) List total number of art objects which have height greater than 20 feet

```
SELECT COUNT(id_obj)
 FROM
(
(SELECT id_obj,height FROM sculpture  )
UNION
(SELECT id_obj,height FROM printmaking)
UNION
(SELECT id_obj,height FROM painting  )
) AS f
WHERE height > 20
```

11) List all the artists contributing to our art gallery from India.

```
SELECT * FROM Artist WHERE country = "India"
```

12) Show the respective total cost of all museums handled by our art gallery in a year.

```
SELECT museum_id,SUM(maintain_cost_per_year) FROM maintainsat GROUP BY
museum_id
```

13) List all the visitors who visited the Delhi museum handled by our art gallery.

```
SELECT * FROM visitors WHERE visiting_id IN
(
SELECT visiting_id FROM visitingat WHERE museum_id IN
(
SELECT museum_id FROM museums WHERE city='Delhi'
)
)
```

14) Enlist all the customers which prefer to buy the art objects online from our art gallery exhibitions.

```
SELECT * FROM customer WHERE cust_id IN
(
SELECT cust_id FROM orders NATURAL JOIN
(
SELECT order_id FROM (sold_item_details NATURAL JOIN ART_GALLERY_INVENTORY)
AS E1 WHERE sold_mode='online'
) AS g
)
```