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BAI-5A

Database System - Assignments 3

day / date:

Q.1

2) π Team-Name ($(\exists \text{Resolution-Status} = \text{"Successful"})$)

(ACTION-TAKEN \bowtie RESPONSE-TEAM \bowtie (\exists Category = "Ransomware"
(THREAT) \bowtie INCIDENT))

3) π Country_Name (COUNTRY) - π Country_Name (COUNTRY \bowtie RESPONSE_TEAM)

4) $\pi_{\text{Threat-Name}} ((\exists \text{COUNT}(\text{DISTINCT Country-ID})) > 1)$

γ Threat-ID COUNT(DISTINCT Country-ID)(INCIDENT)
)) ⚡ THREAT)

5) π Incident-ID₂, Country-Name, Impact-Score (\exists Category = "AI Attack" \wedge Impact-Score > 80)

Impact-Score > 80

(THREAT & INCIDENT & COUNTRY)

B-2

1) displaying the names of items unavailable, having price greater than 500

SELECT itemName

FROM MenuItem

WHERE isAvailable = 0 AND price > 500;

2) displaying the names of menu items that are either beverages with price greater than 300 or deserts

```
SELECT itemName FROM MenuItem WHERE (category='Beverage' AND  
prices > 300) OR category='Dessert';
```



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day / date:

3) displaying names and prices of all menu items that are snacks and are available

```
SELECT itemName, price FROM MenuItem WHERE category = 'Snack' AND isAvailable = 1;
```

4) displaying names and prices (divided by 100); adjusted prices of all menu items that are snacks & are available.

```
SELECT itemName, price / 100 AS adjustedPrice FROM MenuItem WHERE category = 'Snack' AND isAvailable = 1;
```

5) finding suppliers who ~~already~~ supplied 'Cappuccino'

```
SELECT DISTINCT s.supplierID FROM supplies s JOIN MenuItem m  
ON s.itemID = m.itemID WHERE m.itemName = 'Cappuccino';
```

6) displaying the names of employees who work at a cafe that's located in the same city as their address, along with the cafe name

```
SELECT e.name, c.cafeName FROM Employee e JOIN Cafe c  
ON e.cafeID = c.cafeID WHERE e.address = c.city;
```

7) display the employeeID of employees whose salary is not equal to 50000

```
SELECT empID  
FROM Employee  
WHERE salary <> 50000;
```

8) display the supplierIDs of suppliers that are located in both Karachi & Lahore.

```
SELECT supplierID FROM Supplier WHERE city = 'Karachi' INTERSECT  
SELECT supplierID FROM Supplier WHERE city = 'Lahore';
```

day / date:

9) finding names of menu items that are not supplied by any supplier

SELECT itemName FROM MenuItem WHERE itemID NOT IN (

SELECT DISTINCT itemID

FROM Supplies

);