Digits n Data Week 1

SQL Challenge

Digits n Data

1) FIND HOW MANY ACTIVE AVENGERS HAVE A MISSION SUCCESS RATE HIGHER THAN THE TEAM AVERAGE AND ARE ASSIGNED TO PRIMARY DEFENSE?

```sql
SELECT COUNT(*) AS StrongDefenders
FROM Avengers_Roster
WHERE Status='Active' AND Assignment='Primary Defense'
AND MissionSuccessRate > (SELECT AVG(MissionSuccessRate) FROM Avengers_Roster);
```

OUTPUT

Query Output

StrongDefenders
2

2. Find the Avenger Name who has the highest count of Cosmic Anomaly Encounters ?

```sql
SELECT AvengerName
FROM Mission_Logs
WHERE MissionType = 'Cosmic Anomaly'
GROUP BY AvengerName
ORDER BY COUNT(*) DESC
LIMIT 1;
```

OUTPUT

Query Output

AvengerName

Thor
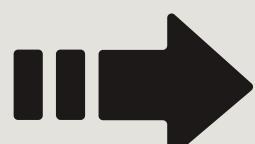
3.RETURN ALL ARMOR MODELS WHERE POWERCAPACITY IS BELOW THE AVERAGE POWERCAPACITY ACROSS THE ENTIRE STARK ARMOR FLEET.?

```sql
SELECT ModelName, PowerCapacity
FROM Stark_Armor
WHERE PowerCapacity < (SELECT AVG(PowerCapacity) FROM Stark_Armor);
```

OUTPUT

Query Output

ModelName	PowerCapacity
Mark II	78.5
Mark III	82.1
Mark V	69.4

4.IDENTIFY WHICH ACTIVE TIME RIFTS HAVE A SEVERITY GREATER THAN THE AVERAGE SEVERITY ACROSS ALL DETECTED RIFTS.?
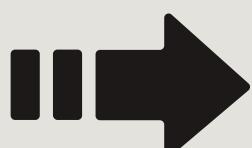
```sql
SELECT Location, Severity
FROM Time_Anomalies
WHERE Status='Active'
AND Severity > (SELECT AVG(Severity) FROM
Time Anomalies);
```

OUTPUT

Query Output

Location	Severity
Tokyo	81.1
Sokovia	94.7

5.COUNT HOW MANY SHIELDS HAVE A STABILITYSCORE BELOW 70 — THESE SHIELDS NEED IMMEDIATE ATTENTION.) ?

```sql
SELECT COUNT(*) AS UnstableShields
FROM Shield_Grid
WHERE StabilityScore < 70;
```

OUTPUT

Query Output

UnstableShields

3

6.RETURN ALL DEVICES WHERE CALIBRATIONSTATUS = 'FAILED' — THESE NEED IMMEDIATE ATTENTION?

```sql
SELECT *
FROM Quantum_Devices
WHERE CalibrationStatus = 'Failed';
```
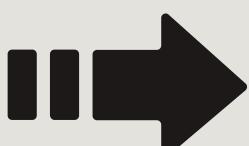
OUTPUT

Query Output

DeviceID	Location	CalibrationStatus	PhaseLevel
2	Lab B	Failed	3
3	Lab C	Failed	4
5	Lab E	Failed	2

7. RETURN ALL UNIVERSES WHERE THE AVERAGE STABILITYINDEX ACROSS SECTORS IS BELOW 50. INCLUDE UNIVERSEID, NAME, AND THE COMPUTED AVERAGESTABILITY?
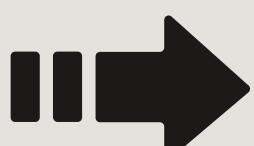
```sql
SELECT UniverseID, Name, AVG(StabilityIndex) AS AverageStability
FROM Multiverse_Sectors
GROUP BY UniverseID, Name
HAVING AVG(StabilityIndex) < 50;
```

OUTPUT

Query Output

UniverseID	Name	AverageStability
1	Earth-616	40
3	Earth-838	45
4	Earth-1610	22.5
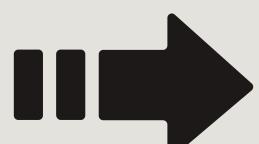
8. RETURN ALL AGENTS WITH ALLEGIANCE = 'HYDRA' AND THREATLEVEL >= 70. SORT THEM BY THREATLEVEL DESCENDING THEN BY NAME ASCENDING?

```sql
SELECT AgentID, Name, ThreatLevel, Region
FROM Global_Agents
WHERE Allegiance='Hydra' AND ThreatLevel >= 70
ORDER BY ThreatLevel DESC, Name ASC;
```

OUTPUT

Query Output

AgentID	Name	ThreatLevel	Region
1	John Doe	95	Europe
6	Arnim Zola	90	Switzerland
3	Alexei Shostakov	80	Russia
8	Victoria Hand	75	UK
10	Grant Ward	70	USA
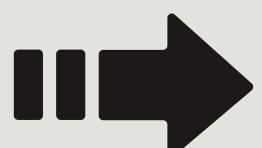
9.RETURN THE TOTAL VIBRANIUM QUANTITYREGION. ONLY INCLUDE REGIONS WHERE THE TOTAL QUANTITY IS GREATER THAN 1000 UNITS. SORT THE RESULTS IN DESCENDING ORDER OF TOTAL VIBRANIUM.?

```sql
SELECT Region, SUM(Quantity) AS TotalVibranium
FROM Vibranium_Stores
GROUP BY Region
HAVING SUM(Quantity) > 1000
ORDER BY TotalVibranium DESC;
```

OUTPUT

Query Output

Region	TotalVibranium
Capital	1200
West	1100
South	1100
North	1100
East	1100
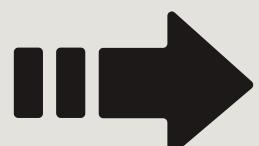
10.RETURN ALL AVENGERS WHO ARE ACTIVE AND HAVE A MISSIONSUCCESSRATE >= 90. INCLUDE THEIR NAME, ROLE, AND MISSIONSUCCESSRATE. SORT THE RESULTS BY MISSIONSUCCESSRATE DESCENDING, AND THEN BY NAME ASCENDING.?

```sql
SELECT Name, Role, MissionSuccessRate
FROM Avengers_Roster
WHERE Status='Active' AND MissionSuccessRate >= 90
ORDER BY MissionSuccessRate DESC, Name ASC;
```
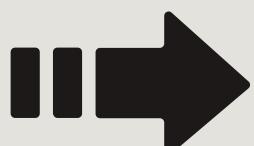
OUTPUT

Query Output

Name	Role	MissionSuccessRate
Doctor Strange	Mystic	97.7
Spider-Man	Scout	93.1
Wanda Maximoff	Mystic	92.6
Thor	Brute	91.8

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