Université de Lille

SAÉ S2.04
Statistiques

Rapport

Analyse de données

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1 Contexte

Physique des médaillés par sport

```sql
CREATE VIEW BodyMedalStats AS (
SELECT sport, COALESCE(AVG(height),0) AS avg_
   height, COALESCE(AVG(weight),0) AS avg_weight
FROM Participations
JOIN Events USING(eno)
JOIN Disciplines USING(dno)
WHERE medal IS NOT NULL
GROUP BY sport
);
```

Résultat:

	sport	avg_height	avg_weight
1	Basketball	191.98828125	86.692
2	Volleyball	186.9019812304	79.6002087683
3	Beach Volleyball	186.8235294118	79.6323529412
4	Water Polo	185.3145057766	85.5531914894
5	Rowing	184.4712163417	80.8142180095
6	Handball	183.1305263158	81.1579509072
7	Baseball	182.4294294294	85.7777777778
8	Bobsleigh	182.0034129693	90.4440559441
9	Swimming	180.964780372	73.2519316795
10	Tennis	180.2528089888	71.988372093
11	Modern Pentathlon	179.522875817	71.5947712418
12	Canoeing	179.5071907958	78.027857829
13	Sailing	179.3376436782	77.494100295
14	Golf	179.1666666667	80.5
15	Ice Hockey	178.7654226961	80.801980198
16	Taekwondo	178.5555555556	68.7222222222
17	Nordic Combined	178.4333333333	67.1897810219
18	Luge	178.2528089888	79.2078651685
19	Fencing	177.7356608479	72.1015412511
20	Cycling	177.706155633	73.1704410012
21	Athletics	177.5169313755	71.3093806374
22	Ski Jumping	177.1720430108	62.92
23	Rugby Sevens	176.5945945946	81.2567567568
24	Rugby	176.1960784314	78.1851851852
25	Skeleton	175.7083333333	71.0833333333

FIGURE 1 – Physique des médaillés par sport

Le physique des non médaillés

Les plus maigres favorisés

Le code java !

```
SELECT sport, b1.avg_weight - b2.avg_weight AS
   weight_diff
FROM BodyMedalStats b1
JOIN BodyNoMedalStats b2 USING(sport)
WHERE b1.avg_weight - b2.avg_weight < 0
ORDER BY weight_diff DESC;
```

Merci d'avoir consulté cette présentation