1.SELECT * FROM cereal LIMIT 20;

name	mfr	type	calories	protein	fat	sodium	fiber	carbo	sugars	potass	vitamins	shelf	weight	cups	rating
100% Bran	N	C	70	4	1	130	10	5	6	280	25	3	1	0.33	68.402973
100% Natural Bran	Q	C	120	3	5	15	2	8	8	135	0	3	1	1	33.983679
All-Bran	K	C	70	4	1	260	9	7	5	320	25	3	1	0.33	59.425505
All-Bran with Extra Fiber	K	C	50	4	0	140	14	8	0	330	25	3	1	0.5	93.704912
Almond Delight	R	C	110	2	2	200	1	14	8	-1	25	3	1	0.75	34.384843
Apple Cinnamon Cheerios	G	C	110	2	2	180	2	11	10	70	25	1	1	0.75	29.509541
Apple Jacks	K	C	110	2	0	125	1	11	14	30	25	2	1	1	33.174094

2. SELECT DISTINCT mfr FROM cereal;

mfr
N
Q
K
R
G
P
A

3. SELECT name, calories FROM cereal WHERE calories > 100;

name	calories
100% Natural Bran	120
Almond Delight	110
Apple Cinnamon Cheerios	110
Apple Jacks	110
Basic 4	130
Cap'n'Crunch	120
Cheerios	110

4. SELECT name, rating FROM cereal ORDER BY rating DESC LIMIT 10;

name	rating
All-Bran with Extra Fiber	93.704912
Shredded Wheat 'n'Bran	74.472949
Shredded Wheat spoon size	72.801787
100% Bran	68.402973
Shredded Wheat	68.235885
Cream of Wheat (Quick)	64.533816
Puffed Wheat	63.005645

5. SELECT type, AVG(calories) AS avg_calories FROM cereal GROUP BY type;

type	avg_calories
C	107.1622
H	100.0000

6. SELECT mfr, AVG(rating) AS avg_rating FROM cereal GROUP BY mfr ORDER BY avg_rating DESC;

mfr	avg_rating
N	67.96856716666666
A	54.850917
K	44.03846234782609
Q	42.915989875
P	41.705744111111111
R	41.542997125
G	34.48585168181818

7. SELECT name, rating FROM cereal WHERE rating > (SELECT AVG(rating) FROM cereal);

name	rating
100% Bran	68.402973
All-Bran	59.425505
All-Bran with Extra Fiber	93.704912
Bran Chex	49.120253
Bran Flakes	53.313813
Cheerios	50.764999
Corn Flakes	45.863324

8. SELECT name, sugars FROM cereal c WHERE sugars > (SELECT AVG(sugars) FROM cereal WHERE mfr = c.mfr);

name	sugars
100% Bran	6
100% Natural Bran	8
Almond Delight	8
Apple Cinnamon Cheerios	10
Apple Jacks	14
Basic 4	8
Cap'n'Crunch	12
Cinnamon Toast Crunch	9

9. SELECT * FROM cereal_summary LIMIT 10;

name	calories	protein	fat	fiber	sugars	rating
100% Bran	70	4	1	10	6	68.402973
100% Natural Bran	120	3	5	2	8	33.983679
All-Bran	70	4	1	9	5	59.425505
All-Bran with Extra Fiber	50	4	0	14	0	93.704912
Almond Delight	110	2	2	1	8	34.384843