```sql
create database heart_attack_prediction_india;
use  heart_attack_prediction_india;
select * from heart_attack_prediction_india;

-- Average of patients
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch rows:

Patient_ID	State_Name	Age	Gender	Diabetes	Hypertension	Obesity	Smoking	Alcohol_Consumption	Physical_Activity	Diet_Score	Cholesterol_Level	Triglyceride_Level	LDL_Level	HDL_Level	Systolic_BP
1	Rajasthan	42	Female	0	0	1	1	0	0	9	248	125	93	42	93
2	Himachal Pradesh	26	Male	0	0	0	0	1	1	4	272	51	153	47	134
3	Assam	78	Male	0	0	1	0	0	1	6	268	213	130	54	104
4	Odisha	58	Male	1	0	1	0	0	1	9	224	250	130	79	91
5	Karnataka	22	Male	0	0	0	0	0	1	5	277	129	150	23	141
6	Tripura	31	Male	0	0	0	0	0	0	7	188	218	105	22	110
7	Rajasthan	26	Male	0	0	0	0	0	0	9	210	155	174	60	156
8	Arunachal Pradesh	68	Male	0	0	1	0	0	0	2	160	275	165	72	157
9	Uttarakhand	45	Female	0	0	0	0	0	0	3	264	242	170	76	158
10	Manipur	52	Male	1	0	0	1	0	0	1	167	174	98	74	166
11	Odisha	56	Male	0	0	0	1	0	1	4	207	82	71	51	173
12	Odisha	67	Female	0	0	1	0	1	0	10	232	115	111	67	165
13	Nagaland	34	Female	0	0	0	1	0	1	9	176	176	107	36	144
14	Tripura	21	Male	0	1	0	1	1	0	10	255	270	159	76	152
15	West Bengal	60	Male	1	0	1	0	0	0	0	224	155	132	37	121
16	Karnataka	26	Female	0	1	0	0	1	0	4	273	165	121	64	155
17	Nagaland	51	Male	0	1	0	0	0	1	7	177	122	67	29	169
18	Bihar	23	Male	0	0	0	0	0	0	10	170	57	123	50	92
19	Meghalaya	39	Male	0	0	0	0	0	1	5	209	269	198	69	114
20	Tripura	69	Female	0	1	1	0	0	0	9	245	180	147	55	173
21	Maharashtra	72	Male	0	0	0	0	0	0	8	225	221	131	25	156
22	Nagaland	55	Female	0	0	1	1	1	0	5	160	188	83	25	164
23	Telangana	51	Female	1	0	0	1	1	0	10	247	50	161	77	159
24	Tamil Nadu	47	Male	0	0	0	0	1	0	8	169	225	147	44	135
25	Maharashtra	32	Female	0	0	0	0	0	0	5	257	247	103	76	178

```
10      -- Average of age
11 •    select round(avg(age)) as avg_age
12      from heart_attack_prediction_india;
```

esult Grid | Filter Rows: | Export:

avg_age
49

```
4      -- male vs female distribution
5  •   select gender,count(*) as total_patients
6      from  heart_attack_prediction_india
7      group by gender;
8
```

sult Grid | Filter Rows: | Export:

gender	total_patients
Female	4484
Male	5516

```sql
SELECT
    CASE
        WHEN age < 30 THEN 'Below 30'
        WHEN age BETWEEN 30 AND 45 THEN '30-45'
        WHEN age BETWEEN 46 AND 60 THEN '46-60'
        ELSE '60+'
    END AS age_group,
    COUNT(*) AS total_patients,
    SUM(CASE WHEN heart_attack_risk = TRUE THEN 1 ELSE 0 END) AS risky_patients
FROM heart_attack_prediction_india
GROUP BY age_group;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

age_group	total_patients	risky_patients
30-45	2784	827
Below 30	1634	479
60+	3149	990
46-60	2433	711

```sql
-- all the patients having cholesteral >240 with patient id
select patient_id,cholesterol_level as high_cholesterol
from heart_attack_prediction_india
where cholesterol_level>240;
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: | Fetch ro

patient_id	high_cholesterol
1	248
2	272
3	268
5	277
9	264
14	255
16	273
20	245
23	247
25	257
28	281
30	249
34	260
37	280
45	281
46	288
48	272

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```sql
-- Top 5 risk factors contributing to heart attack
select 'cholesterol_level'as high_cholesterol,count(*)
from heart_attack_prediction_india
where cholesterol_level>240 and heart_attack_risk=true
union
select 'physical_activity' as low_physical_activity,count(*)
from heart_attack_prediction_india
where physical_activity=true and heart_attack_risk=true
union
select 'alcohol_consumption'as high_alcohol_consumption,count(*)
from heart_attack_prediction_india
where alcohol_consumption=true and heart_attack_risk=true
union
select 'systolic_bp'as high_bp,count(*)
from heart_attack_prediction_india
where systolic_bp>160 and heart_attack_risk=true
 union
select 'stress_level' as high_stress,count(*)
from heart_attack_prediction_india
where stress_level>8 and heart_attack_risk=true;

```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

age_group	total_patients	risky_patients
30-45	2784	827
Below 30	1634	479
60+	3149	990
46-60	2433	711