Q.6. Create type solid_type with attributes length, width, height and 2 member functions surface and volume that returns the surface area and volume of the shape respectively. Create table solid of solid_type, insert records into it and display surface and volume of the solid.

SQL Query:

FROM solid s;

```
CREATE TYPE solid type AS object(
  length FLOAT,
  width FLOAT,
  height FLOAT
);
CREATE TABLE solid (
  dimensions solid type
);
INSERT INTO solid VALUES (solid type(10, 5, 3));
INSERT INTO solid VALUES (solid type(8, 6, 4));
INSERT INTO solid VALUES (solid type(12, 7, 2));
SELECT
  s.dimensions.length,s.dimensions.width,s.dimensions.height,
  (2 * (s.dimensions.length * s.dimensions.width + s.dimensions.width * s.dimensions.height +
s.dimensions.height * s.dimensions.length)) AS surface area,
  (s.dimensions.length * s.dimensions.width * s.dimensions.height) AS volume
```

DIMENSIONS.LENGTH	DIMENSIONS.WIDTH	DIMENSIONS.HEIGHT	SURFACE_AREA	VOLUME
10	5	3	190	150
8	6	4	208	192
12	7	2	244	168