1.write an sql query to find the total sales for each product category from table named sales eith columns category and amount?

```
SELECT
   category,
   SUM(amount) AS total_sales
FROM
   sales
GROUP BY
   category;
```

2.write an sql query to find the average salary for employees in each department from a table named employees with coloumns department and salary but only include departments where the average salary is greater than $50000?

```
SELECT
   department,
   AVG(salary) AS average_salary
FROM
   employees
GROUP BY
   department
HAVING
   AVG(salary) > 50000;
```

3.write an sql query to count the number of employees in each department from a table named employees in each department from a table named employees with columns department and employee_id and include only departments with more than 10 employees?

```
SELECT
   department,
   COUNT(employee_id) AS employee_count
FROM
   employees
GROUP BY
   department
```

```
HAVING
    COUNT(employee_id) > 10;
```

4.write an sql query to find the total sales for each combination of product category and region from a table named sales with columns category region and amount?

```
SELECT
    category,
    region,
    SUM(amount) AS total_sales
FROM
    sales
GROUP BY
    category,
    region;
```

5.write a sql query to find the maximum sale amount for each product category from table named sales with columns category and amount but only include categories where the maximum sale amount is greater than $1000?

```
SELECT
    category,
    MAX(amount) AS max_sale_amount
FROM
    sales
GROUP BY
    category
HAVING
    MAX(amount) > 1000;
```