BASIC LEVEL

1- Employees who earn more than the average salary

```
Code=        SELECT name
FROM employee
WHERE salary > (
   SELECT AVG(salary)
   FROM employee
);
```

2- Employees in the department with the highest average salary
```
Code-
SELECT name
FROM employee
WHERE department_id = (
   SELECT department_id
   FROM employee
   GROUP BY department_id
   ORDER BY AVG(salary) DESC
   LIMIT 1
);
```

3- Employees who have made at least one sale

Code-
```
SELECT name
FROM employee
WHERE emp_id IN (
   SELECT DISTINCT emp_id
   FROM sales
);
```

4-Employee with the highest sale amount

Code-

```
SELECT name

FROM employee

WHERE emp_id = (

   SELECT emp_id

   FROM sales
```

```
    ORDER BY sale_amount DESC

    LIMIT 1)
```

5-Employees earning more than Shubham

Code-

```
SELECT name

FROM employee

WHERE salary > (

    SELECT salary

    FROM employee

    WHERE name = 'Shubham'

);
```

Intermediate level

1- Employees in the same department as Abhishek
   Code-
   ```
   SELECT name
   FROM employee
   WHERE department_id = (
       SELECT department_id
       FROM employee
       WHERE name = 'Abhishek'
   );
   ```
2- Departments with at least one employee earning more than ₹60,000
   Code-
   ```
   SELECT department_name
   FROM department
   WHERE department_id IN (
       SELECT DISTINCT department_id
       FROM employee
   ```

```
        WHERE salary > 60000
    );
```

3-Department name of employee with the highest sale

Code-

```
    SELECT department_name
FROM department
WHERE department_id = (
    SELECT department_id
    FROM employee
    WHERE emp_id = (
        SELECT emp_id
        FROM sales
        ORDER BY sale_amount DESC
        LIMIT 1
    )
);
```

4-Employees who made sales greater than the average sale amount

Code-

```
    SELECT name
FROM employee
WHERE emp_id IN (
    SELECT emp_id
    FROM sales
    WHERE sale_amount > (
        SELECT AVG(sale_amount)
```

```
      FROM sales
    )
);
```

5- Total sales by employees earning more than average salary

 Code-

```
        SELECT SUM(sale_amount) AS total_sales
FROM sales
WHERE emp_id IN (
   SELECT emp_id
   FROM employee
   WHERE salary > (
      SELECT AVG(salary)
      FROM employee
   )
);
```

Advanced level

1-Employees who have not made any sales

  Code-

```
        SELECT name
FROM employee
WHERE emp_id NOT IN (
```

```
    SELECT emp_id

    FROM sales

);
```

2- Departments where average salary is above ₹55,000

   Code-

```
        SELECT department_name

FROM department

WHERE department_id IN (

   SELECT department_id

   FROM employee

   GROUP BY department_id

   HAVING AVG(salary) > 55000

);
```

   3 -Departments where total sales exceed ₹10,000

   Code-

```
        SELECT department_name

   FROM department

   WHERE department_id IN (

      SELECT department_id

      FROM employee

      WHERE emp_id IN (
```

```
        SELECT emp_id

        FROM sales

        GROUP BY emp_id

        HAVING SUM(sale_amount) > 10000

    )

  );
```

4- Employee who made the second-highest sale

  Code-

```
        SELECT name

FROM employee

WHERE emp_id = (

  SELECT emp_id

  FROM sales

  WHERE sale_amount < (

    SELECT MAX(sale_amount)

    FROM sales

  )

  ORDER BY sale_amount DESC

  LIMIT 1

);
```

5- Employees whose salary is greater than the highest sale amount

Code-

```sql
SELECT name

FROM employee

WHERE salary > (

  SELECT MAX(sale_amount)

  FROM sales

);
```