```
-- Create the employee table
-- Create the department table
CREATE TABLE department (
  departmentid INT PRIMARY KEY,
  departmentname VARCHAR(50)
);
-- Insert sample values into the department table
INSERT INTO department (departmentid, departmentname)
VALUES (1, 'Sales');
INSERT INTO department (departmentid, departmentname)
VALUES (2, 'Marketing');
INSERT INTO department (departmentid, departmentname)
VALUES (3, 'Finance');
INSERT INTO department (departmentid, departmentname)
VALUES (4, 'IT');
-- Create the employee table
CREATE TABLE employee (
  employid INT PRIMARY KEY,
  ename VARCHAR(50),
  salary DECIMAL(10, 2),
  departmentid INT,
  FOREIGN KEY (departmentid) REFERENCES department(departmentid)
);
-- Insert sample values into the employee table
```

```
INSERT INTO employee (employid, ename, salary, departmentid)
VALUES (1, 'John Doe', 5000.00, 1);
INSERT INTO employee (employid, ename, salary, departmentid)
VALUES (2, 'Jane Smith', 6000.00, 2);
INSERT INTO employee (employid, ename, salary, departmentid)
VALUES (3, 'Michael Johnson', 5500.00, 3);
INSERT INTO employee (employid, ename, salary, departmentid)
VALUES (4, 'Emily Davis', 4500.00, 1);
INSERT INTO employee (employid, ename, salary, departmentid)
VALUES (5, 'David Lee', 4000.00, 4);
select * from employee;
select * from department;
--SOLUTIONS
--avg sal
select count(employid) from employee e1
where e1.salary>(select avg(e2.salary) from employee e2 where e2.departmentid=e1.departmentid)
  --4th highest
select e.salary from employee e
where 3=(select count( distinct e1.salary) from employee e1 where e1.salary>e.salary)
  --unique rows
```

```
--duplicate rows
select employid, ename, salary, departmentid from employee
where rowid not in (select min(rowid) from employee group by
employid, ename, salary, departmentid)
--alternate
select ename from employee e
where rowid > (select min(rowid) from employee e2
  where e.employid=e2.employid and e.ename=e2.ename and e.salary=e2.salary and
e.departmentid=e2.departmentid)
  --4th highest alternative method
select salary
from (
  select salary, rownum as rn
  from(
  select distinct salary
  from employee
  order by salary desc
  )
)where rn=4
```