

1)

The screenshot shows the SQL Developer interface with a query window titled 'C.sql'. The query is as follows:

```
--1  
Select Fname, Minit, Lname from Employee where ssn in (select essn from Works_On where pno in (select pnumber from Project))
```

The query has been executed, and the results are displayed in a table with 7 rows. The status bar indicates 'All Rows Fetched: 7 in 0.052 seconds'.

|   | FNAME    | MINIT | LNAME   |
|---|----------|-------|---------|
| 1 | James    | E     | Borg    |
| 2 | Jennifer | S     | Wallace |
| 3 | Franklin | T     | Wong    |
| 4 | John     | B     | Smith   |
| 5 | Alicia   | J     | Zelaya  |
| 6 | Joyce    | A     | English |
| 7 | Ahmad    | V     | Jabbar  |

2)

The screenshot shows the SQL Developer interface with a query window titled 'C.sql'. The query is as follows:

```
--2  
select d.dnumber, d.dname, avg(s.salary) from Department d, employee s  
where d.dnumber = s.dno  
group by d.dnumber, d.dname  
order by d.dnumber asc  
--3
```

The query has been executed, and the results are displayed in a table with 3 rows. The status bar indicates 'All Rows Fetched: 3 in 0.024 seconds'.

|   | DNUMBER | DNAME          | AVG(S.SALARY) |
|---|---------|----------------|---------------|
| 1 | 1       | Headquarters   | 55000         |
| 2 | 4       | Administration | 28000         |
| 3 | 5       | Research       | 32100         |

3)

Worksheet Query Builder

```
--3

select Fname, Minit, Lname from Employee, Department
where employee.ssn = department.mgr_ssn
minus
select Fname, Minit, Lname from Employee, Dependent
where employee.ssn = Dependent.essn
```

Script Output x Query Result x Query Result 1 x Query Result 2 x Query Result 3 x

SQL | All Rows Fetched: 1 in 0.026 seconds

|   | FNAME | MINIT | LNAME |
|---|-------|-------|-------|
| 1 | James | E     | Borg  |

4)

Worksheet Query Builder

```
--4

Select Fname, Minit, Lname from Employee where dno in (
Select dno from Employee where salary = (select min(salary) from employee)
)
```

Script Output x Query Result x Query Result 1 x Query Result 2 x Query Result 3 x Query Result 4 x

SQL | All Rows Fetched: 3 in 0.023 seconds

|   | FNAME    | MINIT | LNAME   |
|---|----------|-------|---------|
| 1 | Jennifer | S     | Wallace |
| 2 | Alicia   | J     | Zelaya  |
| 3 | Ahmad    | V     | Jabbar  |

5)

The screenshot shows a SQL query editor with two tabs: 'B.sql' and 'C.sql'. The 'C.sql' tab is active, displaying a SQL query. The query is as follows:

```
--5  
  
Select Dname, Count(distinct employee.ssn), Count(Dependent.essn)  
from Employee Inner Join Department on Employee.dno = department.dnumber  
Left Join Dependent on Employee.ssn = dependent.essn  
Group by Dname  
  
--6
```

Below the query editor, there is a 'Script Output' window showing the results of the query. The status bar indicates 'All Rows Fetched: 3 in 0.03 seconds'. The results are displayed in a table with three columns: 'DNAME', 'COUNT(DISTINCTEMPLOYEE.SSN)', and 'COUNT(DEPENDENT.ESSN)'. The data is as follows:

|   | DNAME          | COUNT(DISTINCTEMPLOYEE.SSN) | COUNT(DEPENDENT.ESSN) |
|---|----------------|-----------------------------|-----------------------|
| 1 | Administration | 3                           | 2                     |
| 2 | Research       | 5                           | 7                     |
| 3 | Headquarters   | 1                           | 0                     |

6)

SQL IDE interface showing a query and its results.

**Query Builder**

```
--6  
  
Select Fname, Minit, Lname, salary from Employee where salary >  
(Select max(salary) from employee) -20000
```

**Script Output** | **Query Result** | **Query Result 1** | **Query Result 2** | **Query Result 3** | **Q**

SQL | All Rows Fetched: 4 in 0.037 seconds

|   | FNAME    | MINIT | LNAME   | SALARY |
|---|----------|-------|---------|--------|
| 1 | James    | E     | Borg    | 55000  |
| 2 | Jennifer | S     | Wallace | 37000  |
| 3 | Franklin | T     | Wong    | 40000  |
| 4 | Ramesh   | K     | Narayan | 38000  |