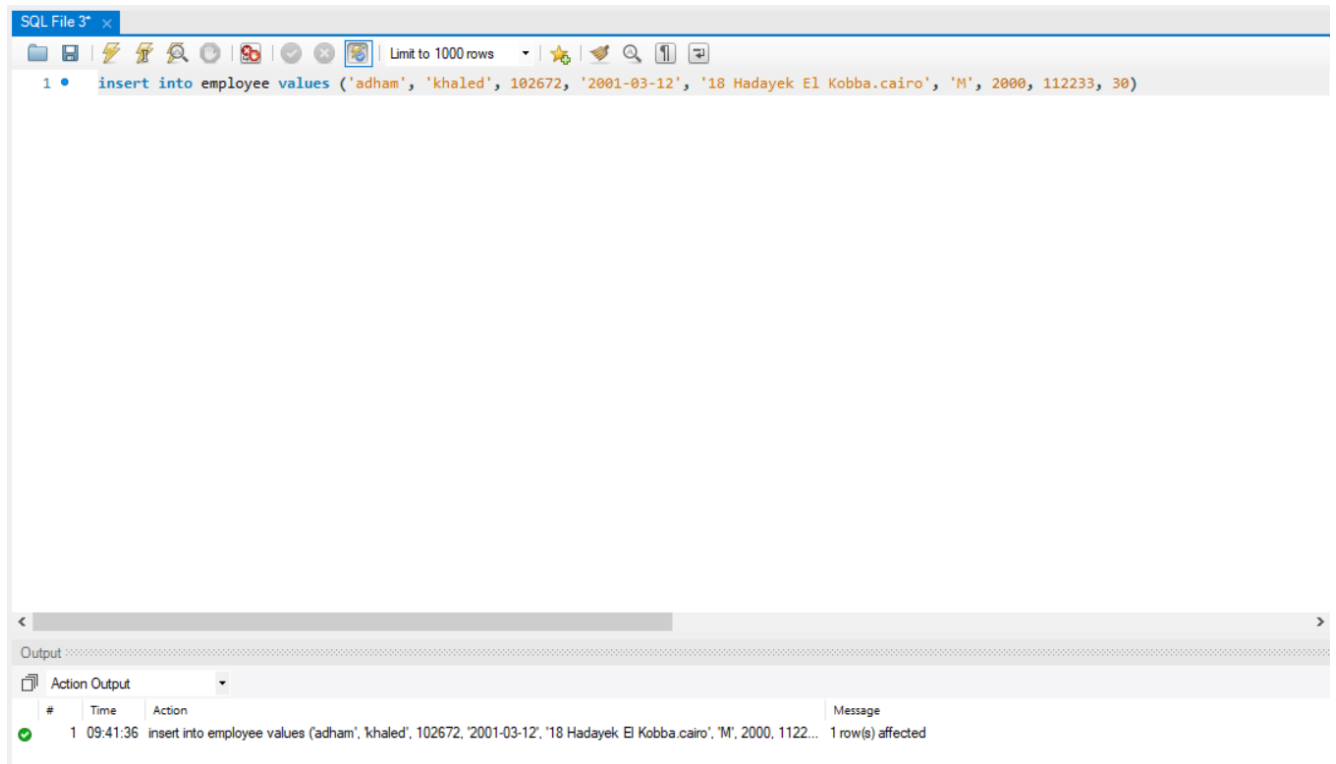
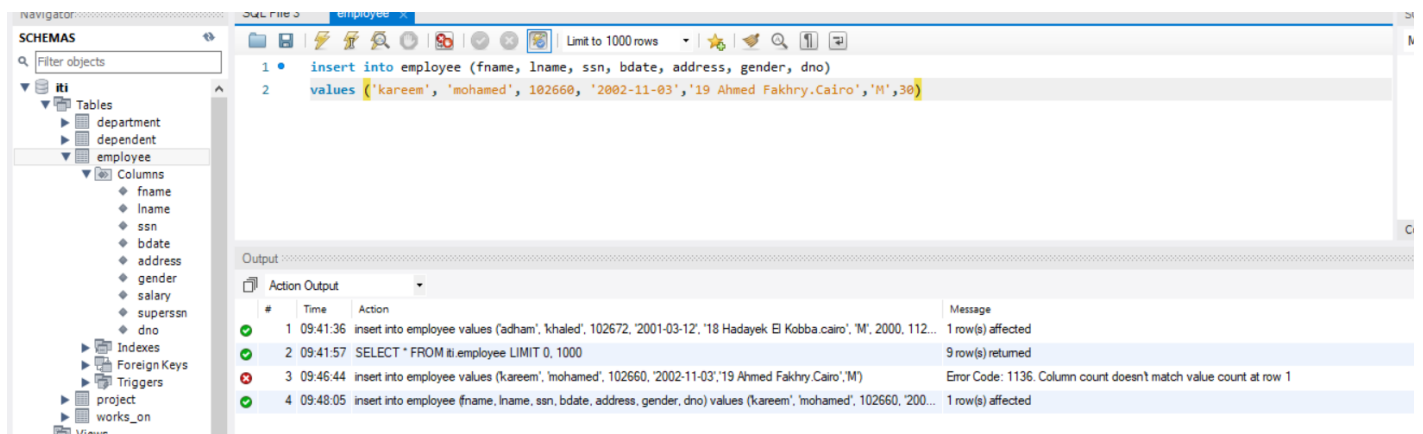


Data Manipulating Language:

1-



2-



3-

The screenshot shows the SQL Developer interface with the 'employee' schema selected in the Navigator. The SQL Editor contains the following statement:

```
1 insert into department values (100,'DEPT IT', 112233, '2006-11-01')
```

The Output window shows the execution results:

#	Time	Action	Message
1	09:41:36	insert into employee values ('adham', 'khaled', 102672, '2001-03-12', '18 Hadayek El Kobba.cairo', 'M', 2000, 112...	1 row(s) affected
2	09:41:57	SELECT * FROM it.employee LIMIT 0, 1000	9 row(s) returned
3	09:46:44	insert into employee values ('kareem', 'mohamed', 102660, '2002-11-03', '19 Ahmed Fakhry.Cairo', 'M')	Error Code: 1136. Column count doesn't match value count at row 1
4	09:48:05	insert into employee (fname, lname, ssn, bdate, address, gender, dno) values ('kareem', 'mohamed', 102660, '200...	1 row(s) affected
5	09:51:09	insert into department values (100,'DEPT IT', 112233, '2006-11-01')	1 row(s) affected

4-

a-

The screenshot shows the SQL Developer interface with the 'employee' schema selected. The SQL Editor contains the following statement:

```
1 update department
2 set mgrssn = 968574
3 where dnum = 100
```

The Output window shows the execution results:

#	Time	Action	Message
1	09:41:36	insert into employee values ('adham', 'khaled', 102672, '2001-03-12', '18 Hadayek El Kobba.cairo', 'M', 2000, 112...	1 row(s) affected
2	09:41:57	SELECT * FROM it.employee LIMIT 0, 1000	9 row(s) returned
3	09:46:44	insert into employee values ('kareem', 'mohamed', 102660, '2002-11-03', '19 Ahmed Fakhry.Cairo', 'M')	Error Code: 1136. Column count doesn't match value count at row 1
4	09:48:05	insert into employee (fname, lname, ssn, bdate, address, gender, dno) values ('kareem', 'mohamed', 102660, '200...	1 row(s) affected
5	09:51:09	insert into department values (100,'DEPT IT', 112233, '2006-11-01')	1 row(s) affected
6	09:56:10	update department set mgrssn = 968574 where dnum = 100	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

b-

The screenshot shows the SQL Developer interface with the 'employee' schema selected. The SQL Editor contains the following statement:

```
1 update department
2 set mgrssn = 112233
3 where dnum = 20
```

The Output window shows the execution results:

#	Time	Action	Message
1	09:59:23	update department set mgrssn = 112233 where dnum = 20	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

C-

The screenshot shows the SQL Developer interface with a script titled 'employee'. The script contains the following SQL statements:

```

1 update employee
2 set superssn = 112233
3 where ssn = 102660

```

The Output window shows the execution results:

#	Time	Action	Message
1	09:59:23	update department set mgrssn = 112233 where dnum = 20	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
2	10:01:20	update employee set superssn = 112233 where ssn = 102660	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

5-

Check if Mr.Kamel is a department manager and take his position

The screenshot shows the SQL Developer interface with a query titled 'employee'. The query is:

```

1 select * from department where mgrssn = 223344

```

The Result Grid shows the following data:

dnum	dname	mgrssn	MGRStartDate
10	DP1	223344	2005-01-01

The screenshot shows the SQL Developer interface with a script titled 'employee'. The script contains the following SQL statements:

```

1 update department
2 set mgrssn = 112233
3 where dnum = 10

```

The Output window shows the execution results:

#	Time	Action	Message
1	09:59:23	update department set mgrssn = 112233 where dnum = 20	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
2	10:01:20	update employee set superssn = 112233 where ssn = 102660	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
3	10:08:00	select * from department where mgrssn = 223344 LIMIT 0, 1000	1 row(s) returned
4	10:10:23	update department set mgrssn = 112233 where dnum = 10	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Check if Mr. Kamel supervises any employees and take his position

The screenshot shows the SQL Developer interface. The left pane displays the 'SCHEMAS' tree with the 'iti' schema expanded, showing tables 'department', 'dependent', and 'employee'. The 'employee' table columns are listed: fname, lname, ssn, bdate, address, gender, salary, superssn, and dno. The main pane shows a SQL query in 'SQL File 3*':

```
1 select * from employee where superssn = 223344
```

The 'Result Grid' shows the following data:

fname	lname	ssn	bdate	address	gender	salary	superssn	dno
Ahmed	Ali	112233	1965-01-01	15 Ali Fahmy St. Giza	M	1300	223344	10
Hanaa	Sobhy	123456	1973-03-18	38 Abdel Khalik Tharwat St. Downtown, Cairo	F	800	223344	10

The bottom pane shows an SQL query in 'SQL File 2*':

```
1 update employee  
2 set superssn = 112233  
3 where superssn = 223344
```

Check if he has dependents and delete them

The screenshot shows the SQL Developer interface. The left pane displays the 'SCHEMAS' tree with the 'iti' schema expanded, showing tables 'department', 'dependent', and 'employee'. The 'dependent' table columns are listed: essn, dependent_name, gender, and bdate. The main pane shows a SQL query in 'SQL File 3*':

```
1 select * from dependent where essn = 223344
```

The 'Result Grid' shows the following data:

essn	dependent_name	gender	bdate
223344	Ahmed Kamel Mohamed	M	1998-03-27
223344	Mona Adel Mohamed	F	1975-04-25

The bottom pane shows an SQL query in 'SQL File 3*':

```
1 delete from dependent  
2 where essn = 223344
```

Check if Mr.Kamel works on any project and delete them

The screenshot shows the SQL Developer interface. On the left, the 'SCHEMAS' pane shows the 'iti' schema with tables 'department', 'dependent', 'employee', 'project', and 'works_on'. The 'works_on' table is selected, showing columns 'essn', 'pno', and 'weekly_hours'. The main SQL editor shows a query: `select * from works_on where essn = 223344`. The 'Result Grid' shows the following data:

essn	pno	weekly_hours
223344	100	10
223344	200	10
223344	300	10
223344	500	10

The screenshot shows the SQL Developer interface. The 'SCHEMAS' pane on the left is the same as in the previous image. The main SQL editor shows a delete query: `delete from works_on where essn = 223344`.

6-

The screenshot shows the SQL Developer interface. The 'SCHEMAS' pane on the left shows the 'iti' schema with tables 'department', 'dependent', 'employee', and 'project'. The 'employee' table is selected, showing columns 'fname', 'lname', 'ssn', and 'bdate'. The main SQL editor shows an update query: `update employee set salary = salary * 1.2 where ssn = 112233`.

Write the following queries

1-

The screenshot shows the SQL Enterprise Manager interface. The left pane displays the 'SCHEMAS' tree with 'employee' selected under 'Columns'. The main query window contains the following query:

```
1 • select * from employee
```

The 'Result Grid' shows the following data:

fname	lname	ssn	bdate	address	gender	salary	superssn	dno
kareem	mohamed	102660	2002-11-03	19 Ahmed Fahmy, Cairo	M	112233	30	
adham	khaled	102672	2001-03-12	18 Hadeyek El Kobba, Cairo	M	2000	112233	30
Ahmed	Ali	112233	1965-01-01	15 Ali Fahmy St. Giza	M	1560	112233	10
Hanaa	Sobhy	123456	1973-03-18	38 Abdel Khalk Tharwat St. Downtown, Cairo	F	800	112233	10
Kamel	Mohamed	223444	1970-10-15	38 Mohy el dien abo el Ezz St. Cairo	M	1800	321654	10
Amr	Omran	321654	1963-09-14	44 Hilopolis, Cairo	M	2500	112233	
Edward	Hanna	512463	1972-08-19	18 Abaas El 3akaad St. Nasr City, Cairo	M	1500	321654	30
Maged	Raouf	521634	1980-04-06	18 Kholosi st. Shobra, Cairo	M	1000	968574	30
Mariam	Adel	669955	1982-06-12	269 El-Haram st. Giza	F	750	512463	20
Noha	Mohamed	968574	1975-02-01	55 Orabi St. El Mohandiseen , Cairo	F	1600	321654	20

2-

The screenshot shows the SQL Enterprise Manager interface. The left pane displays the 'SCHEMAS' tree with 'employee' selected under 'Columns'. The main query window contains the following query:

```
1 select fname, lname, salary, dno  
2 from employee
```

The 'Result Grid' shows the following data:

fname	lname	salary	dno
kareem	mohamed	112233	30
adham	khaled	2000	30
Ahmed	Ali	1560	10
Hanaa	Sobhy	800	10
Kamel	Mohamed	1800	10
Amr	Omran	2500	112233
Edward	Hanna	1500	30
Maged	Raouf	1000	30
Mariam	Adel	750	20
Noha	Mohamed	1600	20

3-

The screenshot shows the SQL Enterprise Manager interface. The left pane displays the 'SCHEMAS' tree with 'project' selected under 'Columns'. The main query window contains the following query:

```
1 • select pname, plocation, dnum  
2 from project
```

The 'Result Grid' shows the following data:

pname	plocation	dnum
AL Solmaniah	Cairo_Alex Road	10
Al Rabiwah	6th of October City	10
Al Rawdah	Zaied City	10
Al Rowad	Cairo_Faiyom Road	20
Al Rehab	Nasr City	30
Pitcho american	Maady	30
Ebad El Rahman	Ring Road	20

4-

The screenshot shows a database management tool interface. On the left, the 'SCHEMAS' pane displays a tree view of the database structure, including tables like 'department', 'dependent', 'employee', and 'project'. The main area shows a SQL query:

```
1 • select CONCAT(fname, ' ', lname) as full_name, (salary * 12 * 0.10) as annual_comm
2 from employee
```

The 'Result Grid' displays the following data:

full_name	annual_comm
kareem mohamed	NULL
adham khaled	2400.00
Ahmed Ali	1872.00
Hanaa Sobhy	960.00
Kamel Mohamed	2160.00
Amr Omran	3000.00
Edward Hanna	1800.00
Maged Raoof	1200.00
Mariam Adel	900.00
Noha Mohamed	1920.00

5-

The screenshot shows a database management tool interface. On the left, the 'SCHEMAS' pane displays a tree view of the database structure, including tables like 'department', 'dependent', 'employee', and 'project'. The main area shows a SQL query:

```
1 • select ssn, fname, lname
2 from employee
3 where salary > 1000
```

The 'Result Grid' displays the following data:

ssn	fname	lname
102672	adham	khaled
112233	Ahmed	Ali
223344	Kamel	Mohamed
321654	Amr	Omran
512463	Edward	Hanna
968574	Noha	Mohamed
NULL	NULL	NULL

6-

The screenshot shows a database management tool interface. On the left, the 'SCHEMAS' pane displays a tree view of the database structure, including tables like 'department', 'dependent', 'employee', and 'project'. The main area shows a SQL query:

```
1 • select ssn, fname, lname
2 from employee
3 where (salary * 12) > 10000
```

The 'Result Grid' displays the following data:

ssn	fname	lname
102672	adham	khaled
112233	Ahmed	Ali
223344	Kamel	Mohamed
321654	Amr	Omran
512463	Edward	Hanna
521634	Maged	Raoof
968574	Noha	Mohamed
NULL	NULL	NULL

7-

The screenshot shows the SQL Developer interface. On the left, the 'Tables' pane lists 'department', 'dependent', and 'employee'. The 'Columns' pane for 'employee' lists: fname, lname, ssn, bdate, address, gender, and salary. The main query window contains the following SQL code:

```
1 • select fname, lname, salary
2   from employee
3  where gender = 'F'
```

Below the query, the 'Result Grid' shows the following data:

fname	lname	salary
Hanaa	Sobhy	800
Mariam	Adel	750
Noha	Mohamed	1600

8-

The screenshot shows the SQL Developer interface. On the left, the 'Tables' pane lists 'department'. The 'Columns' pane for 'department' lists: dnum, dname, mgrssn, GRStart Date, es, and Keys. The main query window contains the following SQL code:

```
1 • select dnum, dname
2   from department
3  where mgrssn = 968574
```

Below the query, the 'Result Grid' shows the following data:

dnum	dname
100	DEPT IT
NULL	NULL

9-

The screenshot shows the SQL Developer interface. On the left, the 'Tables' pane lists 'department', 'dependent', 'employee', and 'project'. The 'Columns' pane for 'project' lists: pnumber, pname, plocation, and bdate. The main query window contains the following SQL code:

```
1 • select pnumber, pname, plocation
2   from project
3  where dnum = 10
```

Below the query, the 'Result Grid' shows the following data:

pnumber	pname	plocation
100	AL Solimaniah	Cairo_Alex Road
200	Al Rabwah	6th of October City
300	Al Rawdah	Zaied City
NULL	NULL	NULL