

PASO 1 :

```
1090 • use employees; set autocommit=1; start transaction;
```

Output :

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	13:05:26	use employees	0 row(s) affected	0.000 sec
✓ 2	13:05:43	set autocommit=1	0 row(s) affected	0.000 sec
✓ 3	13:05:57	start transaction	0 row(s) affected	0.000 sec

PASOS 2-3:

```
• insert into empleados(num_emp,fec_nac,nombre,apellido,genero,num_dep)
  select * from employees
  where emp_no in(select emp_no
                  from departments
                  where dept_no='d001')
  and first_name='Maria'
  and gender = 'M';
• commit;
```

ut :

Action Output

#	Time	Action	Message	Duration / Fetch
2	16:04:15	start transaction	0 row(s) affected	0.000 sec
3	16:04:23	insert into empleados(num_emp,fec_nac,nombre,apellido,....	134 row(s) affected Records: 134 Duplicates: 0 Warning...	0.438 sec
4	16:04:37	commit	0 row(s) affected	0.000 sec

PASO 4 y 5:

```
303 • set autocommit=on; start transaction;
304 • update departamentos set nom_dep = 'Comercio' where nom_dep = 'Marketing';
305 • update departamentos set nom_dep = 'Finanzas' where nom_dep = 'Finance';
306 • update departamentos set nom_dep = 'Recursos Humanos' where nom_dep = 'Human Resources';
307 • update departamentos set nom_dep = 'Producción' where nom_dep = 'Production';
308 • update departamentos set nom_dep = 'Desarrollo' where nom_dep = 'Development';
309 • update departamentos set nom_dep = 'Control de Calidad' where nom_dep = 'Quality Management';
310 • update departamentos set nom_dep = 'Ventas' where nom_dep = 'Sales';
311 • update departamentos set nom_dep = 'Investigación' where nom_dep = 'Research';
312 • update departamentos set nom_dep = 'Atención al Cliente' where nom_dep = 'Customer Service';
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 10	16:15:54	update departamentos set nom_dep = 'Ventas' where no...	1 row(s) affected Rows matched: 1 Changed: 1 Warning...	0.000 sec
✓ 11	16:15:54	update departamentos set nom_dep = 'Investigación' whe...	1 row(s) affected Rows matched: 1 Changed: 1 Warning...	0.000 sec
✓ 12	16:15:54	update departamentos set nom_dep = 'Atención al Cliente...	1 row(s) affected Rows matched: 1 Changed: 1 Warning...	0.000 sec

PASO 6:

```
332 • update departamentos set num_dep = substr(nom_dep, 1, 4);
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✗ 1	16:57:15	update departamentos set num_dep = s...	Error Code: 1451. Cannot delete or upda...	0.015 sec

PASOS 7:

```
335 • alter table departamentos rename column num_dep to cod_dep;
336 • alter table empleados rename column num_dep to cod_dep;
337 • alter table empleados drop constraint empleados_departamentos_FK;
338 • alter table empleados add constraint empleados_departamentos_FK foreign key (
339   references departamentos(cod_dep) on update cascade;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
✓ 1	17:03:05	alter table departamentos rename colum...	0 row(s) affected Records: 0 Duplicates...	0.016 sec
✓ 2	17:03:05	alter table empleados rename column nu...	0 row(s) affected Records: 0 Duplicates...	0.000 sec
✓ 3	17:03:05	alter table empleados drop constraint em...	0 row(s) affected Records: 0 Duplicates...	0.000 sec
✓ 4	17:03:05	alter table empleados add constraint em...	27 row(s) affected Records: 27 Duplicat...	0.062 sec

PASO 13:

The screenshot shows a database interface with a table named 'departamentos' containing 9 rows. The columns are 'cod_dep' and 'nom_dep'. The rows are: d001 Comercio, d002 Finanzas, d003 Recursos Humanos, d004 Producción, d005 Desarrollo, d006 Control de Calidad, d007 Ventas, d008 Investigación, and d009 Atención al Cliente. Below the table, there is a tab labeled 'departamentos 19' and buttons for 'Apply' and 'Revert'. On the right side, there are icons for 'Result Grid', 'Form Editor', and 'Field Types'. At the bottom, there is an 'Output' section with a dropdown menu set to 'Action Output'. The output log shows a single action: a SELECT statement executed at 17:33:41, returning 9 rows in 0.000 seconds.

cod_dep	nom_dep
d001	Comercio
d002	Finanzas
d003	Recursos Humanos
d004	Producción
d005	Desarrollo
d006	Control de Calidad
d007	Ventas
d008	Investigación
d009	Atención al Cliente

departamentos 19 x Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	17:33:41	select * from departamentos LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

No ha cambiado nada, porque el rollback ha deshecho las sentencias update del paso 11.

PASO 14-16:

The screenshot shows a database interface with a SQL editor containing three lines of code: 'set autocommit=on; start transaction; #14-16', 'update departamentos set cod_dep = substr(nom_dep, 1, 4);', and 'commit;'. Below the editor, there is an 'Output' section with a dropdown menu set to 'Action Output'. The output log shows four actions: 'set autocommit=on' (0 rows affected), 'start transaction' (0 rows affected), 'update departamentos set cod_dep = substr(nom_dep, 1, 4);' (9 rows affected), and 'commit' (0 rows affected). All actions were executed at 18:38:20.

```
352 • set autocommit=on; start transaction; #14-16
353 • update departamentos set cod_dep = substr(nom_dep, 1, 4);
354 • commit;
```

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:38:20	set autocommit=on	0 row(s) affected	0.000 sec
2	18:38:20	start transaction	0 row(s) affected	0.000 sec
3	18:38:20	update departamentos set cod_dep = substr(nom_dep, 1, 4);	9 row(s) affected Rows matched: 9 Chang...	0.000 sec
4	18:38:20	commit	0 row(s) affected	0.000 sec

PASO 17:

The screenshot displays a database management interface. At the top, a table with two columns, 'cod_dep' and 'nom_dep', lists nine departments: Aten (Atención al Cliente), Come (Comercio), Cont (Control de Calidad), Desa (Desarrollo), Fina (Finanzas), Inve (Investigación), Prod (Producción), Recu (Recursos Humanos), and Vent (Ventas). Below the table, a tab labeled 'departamentos 20' is active. To the right of the table, there are buttons for 'Result Grid', 'Form Editor', and 'Field Types'. At the bottom, an 'Output' section shows a log entry for an 'Action Output' query: 'select * from departamentos LIMIT 0, 1000'. The log indicates that 9 rows were returned and the operation took 0.000 seconds.

cod_dep	nom_dep
Aten	Atención al Cliente
Come	Comercio
Cont	Control de Calidad
Desa	Desarrollo
Fina	Finanzas
Inve	Investigación
Prod	Producción
Recu	Recursos Humanos
Vent	Ventas
NULL	NULL

departamentos 20 x Apply Revert

Output

Action Output

#	Time	Action	Message	Duration / Fetch
1	18:47:35	select * from departamentos LIMIT 0, 1000	9 row(s) returned	0.000 sec / 0.000 sec

Como en el apartado 16 hicimos commit, confirmamos el 15.

El apartado 15, con la función subtract, corta la cadena de caracteres de nom_dep desde la posición 1 a la 4, ambas incluidas, y luego se la asigna a cod_dep. Así, el cod_dep será las 4 primeras letras de nom_dep.