

## Test cases for EMPLOYEES Table

### employees\_employee\_id\_pk

#### \*\* Valid test \*\*

-- Expected results: Insert statement add a row in the employees table

-- Action:

INSERT INTO employees

VALUES (100002, 'Bryan', 'Bonilla', '1996-02-08', '1245 Kingston Rd', '6475368908',  
'b.bonilla@gmail.com', '2023-04-19', 150000, 'Active', NULL, NULL, NULL, NULL);

-- Test results: 1 row(s) affected

Output			
Action Output			
#	Time	Action	Message
1	13:07:18	INSERT INTO employees VALUES (100002, 'Bryan', 'Bonilla', '1996-02-08', '1245 Kingston Rd', '6475368908', 'b.bonilla@gmail.com', '2023-04-19', 150000, 'Active', NULL, NULL, NULL, NULL)	1 row(s) affected
			Duration / Fetch: 0.015 sec

#### \*\* InValid test \*\*

-- Expected results: Insert statement fails to add a row in the employees table

-- Action:

INSERT INTO employees

VALUES (100002, 'Rocio', 'Alarcon', '1971-02-28', '19 Urbe Village', '3165090921',  
'r.alarcon@gmail.com', '2021-08-06', 190000, 'Active', NULL, NULL, NULL, NULL);

-- Test results: Error Code: 1062. Duplicate entry '100002' for key 'employees.PRIMARY'

Output			
Action Output			
#	Time	Action	Message
1	13:08:18	INSERT INTO employees VALUES (100002, 'Rocio', 'Alarcon', '1971-02-28', '19 Urbe Village', '3165090921', 'r.alarcon@gmail.com', '2021-08-06', 190000, 'Active', NULL, NULL, NULL, NULL)	Error Code: 1062. Duplicate entry '100002' for key 'employees.PRIMARY'
			Duration / Fetch: 0.000 sec

### employees\_contact\_number\_uk

#### \*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the employees table

-- Action:

INSERT INTO employees

VALUES (100003, 'Rocio', 'Alarcon', '1971-02-28', '19 Urbe Village', '3165090921',  
'r.alarcon@gmail.com', '2021-08-06', 190000, 'Active', NULL, NULL, NULL, NULL);

-- Test results: 1 row(s) affected

Output			
Action Output			
#	Time	Action	Message
1	13:09:29	INSERT INTO employees VALUES (100003, 'Rocio', 'Alarcon', '1971-02-28', '19 Urbe Village', '3165090921', 'r.alarcon@gmail.com', '2021-08-06', 190000, 'Active', NULL, NULL, NULL, NULL)	1 row(s) affected
			Duration / Fetch: 0.000 sec

#### \*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the employees table

-- Action:

UPDATE employees

SET contact\_number = '3165090921'

WHERE employee\_id = 100002;

-- Test results: Error Code: 1062. Duplicate entry '3165090921' for key  
'employees.employees\_contact\_number\_uk'

Output			
Action Output			
#	Time	Action	Message
1	13:10:12	UPDATE employees SET contact_number = '3165090921' WHERE employee_id = 100002	Error Code: 1062. Duplicate entry '3165090921' for key 'employees.employees_contact_number_uk'
			Duration / Fetch 0.000 sec

## ----- employees\_email\_uk

### \*\* Valid test \*\*

-- Expected results: Insert statement add a row in the employees table

-- Action:

UPDATE employees

SET email = 'bryan@gmail.com'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Output			
Action Output			
#	Time	Action	Message
1	13:11:09	UPDATE employees SET email = 'bryan@gmail.com' WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
			Duration / Fetch 0.000 sec

### \*\* InValid test \*\*

-- Expected results: Update statement fails to modify a row in the employees table

-- Action:

UPDATE employees

SET email = 'bryan@gmail.com'

WHERE employee\_id = 100003;

-- Test results: Error Code: 1062. Duplicate entry 'bryan@gmail.com' for key 'employees.employees\_email\_uk'

Output			
Action Output			
#	Time	Action	Message
1	13:11:44	UPDATE employees SET email = 'bryan@gmail.com' WHERE employee_id = 100003	Error Code: 1062. Duplicate entry 'bryan@gmail.com' for key 'employees.employees_email_uk'
			Duration / Fetch 0.000 sec

## ----- employees\_manager\_id\_fk

### \*\* Valid test \*\*

-- Expected results: Insert statement add a row in the employees table

-- Action:

INSERT INTO employees

VALUES (100004, 'Bailey', 'Brown', '2001-09-03', '78 Snowboard Street', '8609875467', 'b.brown@gmail.com', '2017-03-18', 100000, 'Active', 100002, NULL, NULL, NULL);

-- Test results: 1 row(s) affected

Output			
Action Output			
#	Time	Action	Message
1	13:13:22	INSERT INTO employees VALUES (100004, 'Bailey', 'Brown', '2001-09-03', '78 Snowboard Street', '8609875467', 'b.brown@gmail.com', '2017-03-18', 100000, 'Active', 100002, NULL, NULL, NULL)	1 row(s) affected
			Duration / Fetch 0.000 sec

```

-----
** InValid test **
-- Expected results: Update statement fails to modify a row in the employees table
-- Action:
UPDATE employees
SET manager_id = 100005
WHERE employee_id = 100002;
-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key
constraint fails (`one_less_craft`.`employees`, CONSTRAINT `employees_manager_id_fk`
FOREIGN KEY (`manager_id`) REFERENCES `employees` (`employee_id`))

```

Output			
Action Output			
#	Time	Action	Message
1	13:14:10	UPDATE employees SET manager_id = 100005 WHERE employee_id = 100002	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one_less_craft`.`employees`, CONSTRAINT `employees_manager_id_fk` FOREIGN KEY (`manager_id`) REFERENCES `employees` (`employee_id`))
			Duration / Fetch 0.000 sec

```

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employees_store_id_fk
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-- IMPORTANT: 123456, 123457, 123458 store_id exist in the stores table.
-- ** Valid test **
-- Expected results: Update statement modifies a row in the employees table
-- Action:
UPDATE employees
SET store_id = 123456
WHERE employee_id = 100002;
-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

```

Output			
Action Output			
#	Time	Action	Message
1	13:19:09	UPDATE employees SET store_id = 123456 WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
			Duration / Fetch 0.000 sec

```

-----
** InValid test **
-- Expected results: Update statement fails to modify a row in the employees table
-- Action:
UPDATE employees
SET store_id = 101010
WHERE employee_id = 100002;
-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key
constraint fails (`one_less_craft`.`employees`, CONSTRAINT `employees_store_id_fk`
FOREIGN KEY (`store_id`) REFERENCES `stores` (`store_id`))

```

Output			
Action Output			
#	Time	Action	Message
1	13:19:47	UPDATE employees SET store_id = 101010 WHERE employee_id = 100002	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one_less_craft`.`employees`, CONSTRAINT `employees_store_id_fk` FOREIGN KEY (`store_id`) REFERENCES `stores` (`store_id`))
			Duration / Fetch 0.000 sec

-----  
employees\_department\_id\_fk  
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-- IMPORTANT: 000111, 000222, 000333 department\_id exist in the departments table.  
-- \*\* Valid test \*\*  
-- Expected results: Update statement modifies a row in the employees table  
-- Action:  
**UPDATE** employees  
**SET** department\_id = 000333  
**WHERE** employee\_id = 100002;  
-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
1	13:23:16	UPDATE employees SET department_id = 000333 WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.015 sec

-----  
\*\* InValid test \*\*  
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-- Expected results: Update statement fails to modify a row in the employees table  
-- Action:  
**UPDATE** employees  
**SET** department\_id = 999999  
**WHERE** employee\_id = 100002;  
-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one\_less\_craft`.`employees`, CONSTRAINT `employees\_department\_id\_fk` FOREIGN KEY (`department\_id`) REFERENCES `departments` (`department\_id`))

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
1	13:23:57	UPDATE employees SET department_id = 999999 WHERE employee_id = 100002	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one_less_craft`.`employees`, CONSTRAINT `employees_department_id_fk` FOREIGN KEY (`department_id`) REFERENCES `departments` (`department_id`))	0.000 sec

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employees\_job\_id\_fk  
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-- IMPORTANT: 111000, 222000, 333000 job\_id exist in the jobs table.  
-- \*\* Valid test \*\*  
-- Expected results: Update statement modifies a row in the employees table  
-- Action:  
**UPDATE** employees  
**SET** job\_id = 333000  
**WHERE** employee\_id = 100002;  
-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
1	13:25:51	UPDATE employees SET job_id = 333000 WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec

-----  
\*\* InValid test \*\*  
-----

-- Expected results: Update statement fails to modify a row in the employees table  
-- Action:  
**UPDATE** employees  
**SET** job\_id = 567467  
**WHERE** employee\_id = 100002;

```
-- Test results: Error Code: 1452. Cannot add or update a child row: a foreign key
constraint fails (`one_less_craft`.`employees`, CONSTRAINT `employees_job_id_fk` FOREIGN
KEY (`job_id`) REFERENCES `jobs` (`job_id`))
```

Output			
Action Output			
#	Time	Action	Message
1	13:26:26	UPDATE employees SET job_id = 567467 WHERE employee_id = 100002	Error Code: 1452. Cannot add or update a child row: a foreign key constraint fails (`one_less_craft`.`employees`, CONSTRAINT `employees_job_id_fk` FOREIGN KEY (`job_id`) REFERENCES `jobs` (`job_id`))

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employees\_salary\_range  
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**\*\* Valid test #1 \*\***

```
-- Expected results: Update statement modifies a row in the employees table
-- Action:
UPDATE employees
SET salary = 20000
WHERE employee_id = 100002;
-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
```

Output			
Action Output			
#	Time	Action	Message
1	13:27:13	UPDATE employees SET salary = 20000 WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

**\*\* Valid test #2 \*\***

```
-- Expected results: Update statement modifies a row in the employees table
-- Action:
UPDATE employees
SET salary = 200000
WHERE employee_id = 100002;
-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
```

Output			
Action Output			
#	Time	Action	Message
1	13:28:02	UPDATE employees SET salary = 200000 WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

**\*\* Valid test #3 \*\***

```
-- Expected results: Update statement modifies a row in the employees table
-- Action:
UPDATE employees
SET salary = 85000
WHERE employee_id = 100002;
-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
```

Output			
Action Output			
#	Time	Action	Message
1	13:28:36	UPDATE employees SET salary = 85000 WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

-----  
**\*\* InValid test #1 \*\***

```
-- Expected results: Update statement fails to modify a row in the employees table
-- Action:
UPDATE employees
SET salary = 19999
WHERE employee_id = 100002;
```

-- Test results: Error Code: 3819. Check constraint 'employees\_salary\_range' is violated.

Output			
Action Output			
#	Time	Action	Message
1	13:29:11	UPDATE employees SET salary = 19999 WHERE employee_id = 100002	Error Code: 3819. Check constraint 'employees_salary_range' is violated.
			Duration / Fetch 0.000 sec

**\*\* Invalid test #2 \*\***

-- Expected results: Update statement fails to modify a row in the employees table

-- Action:

UPDATE employees

SET salary = 200001

WHERE employee\_id = 100002;

-- Test results: Error Code: 3819. Check constraint 'employees\_salary\_range' is violated.

Output			
Action Output			
#	Time	Action	Message
1	13:29:48	UPDATE employees SET salary = 200001 WHERE employee_id = 100002	Error Code: 3819. Check constraint 'employees_salary_range' is violated.
			Duration / Fetch 0.000 sec

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employees\_emp\_status  
-----

**\*\* Valid test #1 \*\***

-- Expected results: Update statement modifies a row in the employees table

-- Action:

UPDATE employees

SET emp\_status = 'On vacation'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Output			
Action Output			
#	Time	Action	Message
1	13:33:32	UPDATE employees SET emp_status = 'On vacation' WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
			Duration / Fetch 0.016 sec

**\*\* Valid test #2 \*\***

-- Expected results: Update statement modifies a row in the employees table

-- Action:

UPDATE employees

SET emp\_status = 'Retired'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Output			
Action Output			
#	Time	Action	Message
1	13:34:11	UPDATE employees SET emp_status = 'Retired' WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
			Duration / Fetch 0.000 sec

**\*\* Valid test #3 \*\***

-- Expected results: Update statement modifies a row in the employees table

-- Action:

UPDATE employees

SET emp\_status = 'Inactive'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Output			
Action Output			
#	Time	Action	Message
1	13:34:57	UPDATE employees SET emp_status = 'Inactive' WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
			Duration / Fetch 0.000 sec

**\*\* Valid test #4 \*\***

-- Expected results: Update statement modifies a row in the employees table

-- Action:

UPDATE employees

SET emp\_status = 'Active'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Output			
Action Output			
#	Time	Action	Message
1	13:35:28	UPDATE employees SET emp_status = 'Active' WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
			Duration / Fetch 0.000 sec

**\*\* InValid test \*\***

-- Expected results: Update statement fails to modify a row in the employees table

-- Action:

UPDATE employees

SET emp\_status = 'Time Off'

WHERE employee\_id = 100002;

-- Test results:

Output			
Action Output			
#	Time	Action	Message
1	13:36:02	UPDATE employees SET emp_status = 'Time Off' WHERE employee_id = 100002	Error Code: 3819. Check constraint 'employees_emp_status' is violated.
			Duration / Fetch 0.000 sec

**employees\_hire\_date\_gt\_date\_of\_birth**

**\*\* Valid test \*\***

-- Expected results: Update statement modifies a row in the employees table

-- Action:

UPDATE employees

SET hire\_date = '2022-06-11' -- DOB = '1996-02-08'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Output			
Action Output			
#	Time	Action	Message
1	13:37:56	UPDATE employees SET hire_date = '2022-06-11' WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
			Duration / Fetch 0.000 sec

**\*\* InValid test \*\***

-- Expected results: Update statement fails to modify a row in the employees table

-- Action:

UPDATE employees

SET hire\_date = '1995-10-25'

WHERE employee\_id = 100002;

-- Test results: Error Code: 3819. Check constraint  
'employees\_hire\_date\_gt\_date\_of\_birth' is violated.

Output			
Action Output			
#	Time	Action	Message
1	13:40:00	UPDATE employees SET hire_date = '1995-10-25' WHERE employee_id = 100002	Error Code: 3819. Check constraint 'employees_hire_date_of_birth' is violated.
			Duration / Fetch 0.000 sec

## ----- employees\_email -----

### \*\* Valid test \*\*

-- Expected results: Update statement modifies a row in the employees table

-- Action:

UPDATE employees

SET email = 'bryan.bonilla@outlook.com'

WHERE employee\_id = 100002;

-- Test results: 1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0

Output			
Action Output			
#	Time	Action	Message
1	13:43:05	UPDATE employees SET email = 'bryan.bonilla@outlook.com' WHERE employee_id = 100002	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0
			Duration / Fetch 0.000 sec

### \*\* InValid test #1 \*\*

-- Expected results: Update statement fails to modify a row in the employees table

-- Action:

UPDATE employees

SET email = 'bryan.bonillaoutlook.com'

WHERE employee\_id = 100002;

-- Test results: Error Code: 3819. Check constraint 'employees\_email' is violated.

Output			
Action Output			
#	Time	Action	Message
1	13:43:42	UPDATE employees SET email = 'bryan.bonillaoutlook.com' WHERE employee_id = 100002	Error Code: 3819. Check constraint 'employees_email' is violated.
			Duration / Fetch 0.000 sec

### \*\* InValid test #2 \*\*

-- Expected results: Update statement fails to modify a row in the employees table

-- Action:

UPDATE employees

SET email = 'bryan.bonilla@outlookcom'

WHERE employee\_id = 100002;

-- Test results: Error Code: 3819. Check constraint 'employees\_email' is violated.

Output			
Action Output			
#	Time	Action	Message
1	13:44:24	UPDATE employees SET email = 'bryan.bonilla@outlookcom' WHERE employee_id = 100002	Error Code: 3819. Check constraint 'employees_email' is violated.
			Duration / Fetch 0.000 sec