

DBT Practice Quiz III

Total points 20/20 ?

The respondent's email (**anishrane1555@gmail.com**) was recorded on submission of this form.

Full Name *

Anish rane

12 Digit PRN *

250240320015

Centre *

⌵ Dropdown

Kharghar ▼



✓ `SELECT name FROM table1` *
`UNION ALL`
`SELECT name FROM table2`
`ORDER BY name DESC;`

1/1

What does this query achieve?

- ☐ Combines names from both tables, removes duplicates, and sorts descending
- ☒ Combines names from both tables, retains duplicates, and sorts descending ✓
- ☐ Combines and sorts ascending without duplicates
- ☐ Only combines tables without sorting

✓ `SELECT name FROM employee`
`WHERE salary = (SELECT MAX(salary) FROM employee WHERE salary <`
`(SELECT MAX(salary) FROM employee));`

*1/1

This query returns employees with:

- ☐ Highest salary
- ☒ Second highest salary ✓
- ☐ Lowest salary
- ☐ Average salary



✓ `SELECT a.name, b.name FROM employee a
INNER JOIN employee b ON a.manager_id = b.emp_id;` *

1/1

This query retrieves:

- ☒ Employee names alongside their manager names
- ☐ Employees without managers
- ☐ Employees managing other employees
- ☐ Employees with salaries matching their managers



✓ `GRANT SELECT, INSERT ON employees TO user1 WITH GRANT OPTION;` * 1/1

User1 can now:

- ☒ Select and Insert records and give others these permissions
- ☐ Only read records from employees table
- ☐ Only insert records into employees table
- ☐ Create new tables related to employees



✓ `SELECT emp_name, salary FROM employee e1
WHERE salary > (SELECT AVG(salary) FROM employee e2 WHERE
e2.dept_id = e1.dept_id);`

*1/1

This query returns employees who:

- ☐ Earn above overall average salary
- ☒ Earn above the average salary within their own department
- ☐ Earn below department average salary
- ☐ Are in a department with higher-than-average overall salary



✓ `BEGIN TRANSACTION;
UPDATE accounts SET balance = balance - 500 WHERE id = 1;
SAVEPOINT SP1;
UPDATE accounts SET balance = balance + 500 WHERE id = 2;
ROLLBACK TO SP1;
COMMIT;`

*

1/1

What is the final outcome of this transaction?

- ☐ Both account balances remain unchanged
- ☐ Both accounts are updated permanently
- ☒ Account 1 updated; Account 2 rolled back
- ☐ Account 2 updated; Account 1 rolled back



✓ UPDATE employees SET salary = salary * 1.10 *1/1
WHERE emp_id IN (SELECT emp_id FROM performance WHERE rating = 'A');

This query does what?

- ☐ Increases all employee salaries by 10%
- ☒ Gives a 10% raise to employees with rating 'A' ✓
- ☐ Updates salaries to exactly 1.10 for top-rated employees
- ☐ Increases salaries for employees without rating 'A'

✓ ALTER TABLE employees ADD CONSTRAINT chk_salary CHECK (salary > 1000); *1/1

This command:

- ☐ Adds a new column salary to employees
- ☒ Ensures all future employee salaries exceed 1000 ✓
- ☐ Deletes employees with salary less than 1000
- ☐ Updates salaries below 1000 automatically



✓ CREATE TABLE Orders (*1/1
OrderID int PRIMARY KEY,
CustomerID int,
FOREIGN KEY (CustomerID) REFERENCES Customers(CustomerID) ON
DELETE CASCADE
);

If a Customer is deleted from Customers, what happens to related Orders?

- ☐ Orders remain unaffected
- ☐ Orders are updated with NULL CustomerID
- ☒ Orders are deleted automatically ✓
- ☐ Constraint violation error occurs

✓ BEGIN TRANSACTION; * 1/1
DELETE FROM accounts WHERE balance < 0;
ROLLBACK;

What does this set of commands accomplish?

- ☐ Deletes accounts with negative balances permanently
- ☒ Temporarily deletes, but then undoes deletion of negative balance accounts ✓
- ☐ Commits changes immediately after deletion
- ☐ Locks table accounts for further transactions permanently



✓ `SELECT dept_id, COUNT(emp_id) FROM employees *`
`GROUP BY dept_id`
`HAVING COUNT(emp_id) > 5;`

1/1

This query fetches:

- ☐ Departments with exactly 5 employees
- ☒ Departments with more than 5 employees
- ☐ Employees grouped by department having less than 5 employees
- ☐ Departments and their total employees



✓ `SELECT department, MAX(avg_salary)`
`FROM (SELECT department, AVG(salary) AS avg_salary FROM employees`
`GROUP BY department) AS dept_avg;`

*1/1

What does this query return?

- ☐ Average salary of each department
- ☒ Department having the highest average salary
- ☐ Highest salary in each department
- ☐ Average salary for the entire organization



✓ SELECT e.emp_name, m.emp_name AS manager_name, d.dept_name * 1/1
FROM employee e
JOIN employee m ON e.manager_id = m.emp_id
JOIN department d ON e.dept_id = d.dept_id;

What does this query display?

- ☒ Employees, their managers, and departments ✓
- ☐ Employees with no manager
- ☐ Managers only
- ☐ Departments with no employees

✓ SELECT name FROM authors a WHERE EXISTS *1/1
(SELECT * FROM books b WHERE b.author_id = a.author_id AND b.year < 2000);

Which authors are retrieved?

- ☐ Authors who published no books
- ☒ Authors with books published before 2000 ✓
- ☐ Authors with all books after 2000
- ☐ All authors irrespective of publication



✓ `SELECT name FROM products WHERE price > ALL (SELECT price FROM products WHERE category = 'Toys');` *1/1

This query fetches products:

- ☐ With price higher than the cheapest toy
- ☒ With price higher than every toy
- ☐ Priced equal to toys
- ☐ Cheaper than all toys



✓ `SELECT d.dept_name, COUNT(e.emp_id) FROM departments d LEFT JOIN employees e ON d.dept_id = e.dept_id GROUP BY d.dept_name;` * 1/1

Departments with zero employees will:

- ☐ Be excluded
- ☐ Show NULL as count
- ☒ Show count as zero
- ☐ Show an error



✓ UPDATE employees e SET salary = salary * 1.05
WHERE EXISTS (SELECT * FROM performance p WHERE p.emp_id =
e.emp_id AND p.rating='B');

*1/1

Who receives salary updates?

- ☐ Employees without performance rating
- ☒ All employees rated B
- ☐ Employees not rated B
- ☐ All employees irrespective of rating

✓

✓ SELECT SUM(CASE WHEN dept = 'HR' THEN salary ELSE 0 END) AS
hr_salary FROM employees;

*1/1

This query calculates:

- ☐ Total salary of all departments
- ☒ Total salary for HR department only
- ☐ Salaries excluding HR department
- ☐ Average HR salary

✓



✓ `SELECT emp_name, salary, RANK() OVER (ORDER BY salary DESC) as rank FROM employees;` *1/1
Employees with identical salaries will have:

- ☐ Different ranks, consecutive numbers
- ☐ Same rank, no gaps in numbering
- ☒ Same rank, gaps in numbering ✓
- ☐ No ranks assigned

✓ `SELECT dept, role, COUNT(*) FROM employees GROUP BY ROLLUP(dept, role);` *1/1

This query provides:

- ☐ Counts grouped by dept and role separately
- ☒ Counts grouped by dept and role with subtotals ✓
- ☐ Only total employees in each dept
- ☐ Only grand total of employees

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