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AI&DS

EXERCISE 4: Writing Basic SQL SELECT Statements

True OR False

1. The following statement executes successfully.

Identify the Errors

SELECT employee_id, last_name

sal*12 ANNUAL SALARY

FROM employees;

Queries

ANS: FALSE

CORRECTED QUERY:

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User: SYSTEM

Home > SQL > SQL Commands

☑ Autocommit Display 10

```
SELECT employee_id, last_name, salary * 12 AS "ANNUAL SALARY"
FROM employees;
```

Results Explain Describe Saved SQL History

no data found

2. Show the structure of departments the table. Select all the data from it.

☑ Autocommit   Display [10 ▾]

```
DESCRIBE departments;
```

Results Explain **Describe** Saved SQL History

Object Type **TABLE** Object **DEPARTMENTS**

Table	Column	Data Type	Length	Precision	Scale	Primary Key	Nullable	Default	Comment
DEPARTMENTS	DEPARTMENT_ID	Number	-	4	0	1	-	-	-
	DEPARTMENT_NAME	Varchar2	30	-	-	-	-	-	-
	MANAGER_ID	Number	-	6	0	-	✓	-	-
	LOCATION_ID	Number	-	4	0	-	✓	-	-
									1 - 4

☑ Autocommit   Display [10 ▾]

```
SELECT * FROM departments;
```

Results Explain Describe Saved SQL History

no data found

3. Create a query to display the last name, job code, hire date, and employee number for each employee, with employee number appearing first.

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Home > SQL > SQL Commands

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```
SELECT employee_id, last_name, job_id, hire_date
FROM employees;
```

Results Explain Describe Saved SQL History

no data found

4. Provide an alias STARTDATE for the hire date.

☑ Autocommit Display 10 ▾

```
SELECT employee_id, last_name, job_id, hire_date AS STARTDATE
FROM employees;
```

Results Explain Describe Saved SQL History

no data found

5. Create a query to display unique job codes from the employee table.

☑ Autocommit Display 10 ⌄

```
SELECT DISTINCT job_id
FROM employees;
```

Results Explain Describe Saved SQL History

no data found

6. Display the last name concatenated with the job ID , separated by a comma and space, and name the column EMPLOYEE and TITLE.

Autocommit Display 10 ▾

```
SELECT last_name || ', ' || job_id AS "EMPLOYEE and TITLE"
FROM employees;
```

Results Explain Describe Saved SQL History

no data found

7. Create a query to display all the data from the employees table. Separate each column by a

comma. Name the column THE_OUTPUT.

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```
CREATE TABLE employees (
    employee_id INT,
    first_name VARCHAR(50),
    last_name VARCHAR(50),
    email VARCHAR(50),
    phone_number VARCHAR(20),
    hire_date DATE,
    job_id VARCHAR(20),
    salary DECIMAL(10, 2),
    commission_pct DECIMAL(4, 2),
    manager_id INT,
    department_id INT
);
```

Results Explain Describe Saved SQL History

Table created.

0.00 seconds

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```
INSERT INTO employees (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id) VALUES (100, 'Steven', 'King', 'SKING', '515.123.4567', TO_DATE('2003-06-17', 'YYYY-MM-DD'), 'AD_PRES',
24000.00, NULL, NULL, 90);
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.00 seconds

☑ Autocommit Display 10   Save Run

```
INSERT INTO employees (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id) VALUES (101, 'Neena', 'Kochhar', 'NKOCHHAR', '515.123.4568', TO_DATE('2005-09-21', 'YYYY-MM-DD'), 'AD_VP',
17000.00, NULL, 100, 90);
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.00 seconds

☑ Autocommit Display 10   Save Run

```
INSERT INTO employees (employee_id, first_name, last_name, email, phone_number, hire_date, job_id, salary, commission_pct, manager_id, department_id) VALUES (102, 'Lex', 'De Haan', 'LDEHAAN', '515.123.4569', TO_DATE('2001-01-13', 'YYYY-MM-DD'), 'AD_VP',
17000.00, NULL, 100, 90);
```

Results Explain Describe Saved SQL History

1 row(s) inserted.

0.00 seconds

Application Express 2.1.0.00.39

☑ Autocommit Display 10   Save Run

```
SELECT
  employee_id || ', ' || first_name || ', ' || last_name || ', ' || email || ', ' || phone_number || ', ' || hire_date || ', ' || job_id || ', ' || salary || ', ' || NVL(TO_CHAR(commission_pct), ' ') || ', ' || NVL(TO_CHAR(manager_id), ' ') || ', ' ||
department_id AS THE_OUTPUT
FROM employees;
```

Results Explain Describe Saved SQL History

THE_OUTPUT
100, Steven, King, SKING, 515.123.4567, 17-JUN-03, AD_PRES, 24000, , , 90
101, Neena, Kochhar, NKOCHHAR, 515.123.4568, 21-SEP-05, AD_VP, 17000, , 100, 90
102, Lex, De Haan, LDEHAAN, 515.123.4569, 13-JAN-01, AD_VP, 17000, , 100, 90

3 rows returned in 0.00 seconds   CSV Export