CREATE TABLE departments (

dep\_id NUMBER,

dep\_name VARCHAR(50),

dep\_location VARCHAR(50)

);

INSERT INTO departments (dep\_id, dep\_name, dep\_location) VALUES (1001, 'FINANCE', 'SYDNEY');

INSERT INTO departments (dep\_id, dep\_name, dep\_location) VALUES (2001, 'AUDIT', 'MELBOURNE');

INSERT INTO departments (dep\_id, dep\_name, dep\_location) VALUES (3001, 'MARKETING', 'PERTH');

INSERT INTO departments (dep\_id, dep\_name, dep\_location) VALUES (4001, 'PRODUCTION', 'BRISBANE');

DROP TABLE employees;

CREATE TABLE employees (

emp\_id NUMBER,

emp\_name VARCHAR2(50),

job\_name VARCHAR2(50),

manager\_id NUMBER,

hire\_date DATE,

salary NUMBER(10, 2),

commission NUMBER(10, 2),

dep\_id NUMBER

);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(68319, 'KAYLING', 'PRESIDENT', NULL, TO\_DATE('1991-11-18', 'YYYY-MM-DD'), 6000.00, NULL, 1001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(66928, 'BLAZE', 'MANAGER', 68319, TO\_DATE('1991-05-01', 'YYYY-MM-DD'), 2750.00, NULL, 3001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(67832, 'CLARE', 'MANAGER', 68319, TO\_DATE('1991-06-09', 'YYYY-MM-DD'), 2550.00, NULL, 1001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(65646, 'JONAS', 'MANAGER', 68319, TO\_DATE('1991-04-02', 'YYYY-MM-DD'), 2957.00, NULL, 2001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(67858, 'SCARLET', 'ANALYST', 65646, TO\_DATE('1997-04-19', 'YYYY-MM-DD'), 3100.00, NULL, 2001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(69062, 'FRANK', 'ANALYST', 65646, TO\_DATE('1991-12-03', 'YYYY-MM-DD'), 3100.00, NULL, 2001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(63679, 'SANDRINE', 'CLERK', 69062, TO\_DATE('1990-12-18', 'YYYY-MM-DD'), 900.00, NULL, 2001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(64989, 'ADELYN', 'SALESMAN', 66928, TO\_DATE('1991-02-20', 'YYYY-MM-DD'), 1700.00, 400.00, 3001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(65271, 'WADE', 'SALESMAN', 66928, TO\_DATE('1991-02-22', 'YYYY-MM-DD'), 1350.00, 600.00, 3001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(66564, 'MADDEN', 'SALESMAN', 66928, TO\_DATE('1991-09-28', 'YYYY-MM-DD'), 1350.00, 1500.00, 3001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(68454, 'TUCKER', 'SALESMAN', 66928, TO\_DATE('1991-09-08', 'YYYY-MM-DD'), 1600.00, 0.00, 3001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(68736, 'ADNESS', 'CLERK', 67858, TO\_DATE('1997-05-23', 'YYYY-MM-DD'), 1200.00, NULL, 2001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(69000, 'JULIUS', 'CLERK', 66928, TO\_DATE('1991-12-03', 'YYYY-MM-DD'), 1050.00, NULL, 3001);

INSERT INTO employees (emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id) VALUES

(69324, 'MARKER', 'CLERK', 67832, TO\_DATE('1992-01-23', 'YYYY-MM-DD'), 1400.00, NULL, 1001);

CREATE TABLE salary\_grades (

grade NUMBER ,

min\_sal NUMBER,

max\_sal NUMBER

);

INSERT INTO salary\_grades (grade, min\_sal, max\_sal) VALUES(1, 800, 1300);

INSERT INTO salary\_grades (grade, min\_sal, max\_sal) VALUES(2, 1301, 1500);

INSERT INTO salary\_grades (grade, min\_sal, max\_sal) VALUES(3, 1501, 2100);

INSERT INTO salary\_grades (grade, min\_sal, max\_sal) VALUES(4, 2101, 3100);

INSERT INTO salary\_grades (grade, min\_sal, max\_sal) VALUES(5, 3101, 9999);

select \* from salary\_grades;

select \* from employees;

select \* from departments;

-- q1

-- SELECT e.\*

-- FROM Employee\_details e

-- JOIN salary\_grades sg ON e.salary BETWEEN sg.min\_sal AND sg.max\_sal

-- WHERE sg.grade IN (4, 5) AND e.job\_name IN ('ANALYST', 'MANAGER');

-- q2

SELECT \*

FROM employees

WHERE salary > (

SELECT salary

FROM employees

WHERE emp\_name = 'JONAS'

);

-- q3

SELECT emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id

FROM employees

WHERE job\_name = (

SELECT job\_name

FROM employees

WHERE emp\_name = 'FRANK'

);

-- q4

SELECT emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id

FROM employees

WHERE dep\_id = 2001

AND job\_name IN (

SELECT DISTINCT job\_name

FROM employees

WHERE dep\_id = 1001

);

-- q5

SELECT emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id

FROM employees

WHERE salary IN (

SELECT DISTINCT salary

FROM employees

WHERE emp\_name IN ('FRANK', 'SANDRINE')

)

ORDER BY salary DESC;

-- q6

SELECT emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, dep\_id

FROM employees

WHERE job\_name = (

SELECT job\_name

FROM employees

WHERE emp\_name = 'MARKER'

)

OR salary > (

SELECT salary

FROM employees

WHERE emp\_name = 'ADELYN'

);

-- q7

SELECT e.emp\_id, e.emp\_name, e.job\_name, e.manager\_id, e.hire\_date, e.salary, e.commission, e.dep\_id

FROM employees e

JOIN departments d ON e.dep\_id = d.dep\_id

WHERE e.hire\_date < (

SELECT hire\_date

FROM employees

WHERE emp\_name = 'BLAZE'

)

AND d.dep\_location IN ('PERTH', 'BRISBANE');

-- q8

SELECT emp\_id, emp\_name, job\_name, manager\_id, hire\_date, salary, commission, e.dep\_id

FROM employees e

JOIN departments d ON e.dep\_id = d.dep\_id

WHERE d.dep\_name = 'MARKETING'

AND salary = (

SELECT MAX(salary)

FROM employees e2

JOIN departments d2 ON e2.dep\_id = d2.dep\_id

WHERE d2.dep\_name = 'MARKETING'

);

-- q9

SELECT e.emp\_id, e.emp\_name, e.job\_name, e.manager\_id, e.hire\_date, e.salary, e.commission, e.dep\_id

FROM employees e

JOIN departments d ON e.dep\_id = d.dep\_id

JOIN salary\_grades sg ON e.salary BETWEEN sg.min\_sal AND sg.max\_sal

WHERE sg.grade = 3

AND d.dep\_location = 'PERTH'

AND e.hire\_date = (

SELECT MAX(hire\_date)

FROM employees e2

JOIN departments d2 ON e2.dep\_id = d2.dep\_id

JOIN salary\_grades sg2 ON e2.salary BETWEEN sg2.min\_sal AND sg2.max\_sal

WHERE sg2.grade = 3

AND d2.dep\_location = 'PERTH'

);

-- q10

SELECT \*

FROM employees

WHERE manager\_id = (SELECT emp\_id FROM EMPLOYEE\_DETAILS WHERE emp\_name = 'KAYLING')

AND dep\_id > 3

AND hire\_date = (SELECT MAX(hire\_date) FROM employees WHERE manager\_id = (SELECT emp\_id FROM employees WHERE emp\_name = 'KAYLING') AND dep\_id > 3);