SOLUSI LATIHAN BAB 01 NO 06

```
DESCRIBE departments

SELECT *
FROM departments;
```

SOLUSI LATIHAN BAB 01 NO 07

```
DESCRIBE employees

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

SOLUSI LATIHAN BAB 01 NO 08

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

SOLUSI LATIHAN BAB 01 NO 09

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

SOLUSI LATIHAN BAB 01 NO 10

SOLUSI LATIHAN BAB 01 NO 11

```
SELECT last_name||', ' || job_id "Employee and Title"
FROM employees;
```

SOLUSI LATIHAN BAB 01 NO 12

SOLUSI LATIHAN BAB 02 NO 01

```
SELECT last_name, salary FROM employees WHERE salary > 12000;
```

SOLUSI LATIHAN BAB 02 NO 02

```
SELECT last_name, department_id
FROM employees
WHERE employee id = 176;
```

SOLUSI LATIHAN BAB 02 NO 03

```
SELECT last_name, salary
FROM employees
WHERE salary NOT BETWEEN 5000 AND 12000;
```

SOLUSI LATIHAN BAB 02 NO 04

```
SELECT last_name, job_id, hire_date
FROM employees
WHERE last_name IN ('Matos', 'Taylor')
ORDER BY hire date;
```

SOLUSI LATIHAN BAB 02 NO 05

```
SELECT last_name, department_id FROM employees
WHERE department_id IN (20, 50)
ORDER BY last name ASC;
```

SOLUSI LATIHAN BAB 02 NO 06

```
SELECT last_name "Employee", salary "Monthly Salary"
FROM employees
WHERE salary BETWEEN 5000 AND 12000
AND department id IN (20, 50);
```

SOLUSI LATIHAN BAB 02 NO 07

```
SELECT last_name, hire_date
FROM employees
WHERE hire date LIKE '%94';
```

SOLUSI LATIHAN BAB 02 NO 08

```
SELECT last_name, job_id
FROM employees
WHERE manager id IS NULL;
```

SOLUSI LATIHAN BAB 02 NO 09

```
SELECT last_name, salary, commission_pct
```

FROM employees

WHERE commission_pct IS NOT NULL

ORDER BY salary DESC, commission pct DESC;

SOLUSI LATIHAN BAB 02 NO 10

```
SELECT last_name, salary
```

FROM employees

WHERE salary > &sal amt;

SOLUSI LATIHAN BAB 02 NO 11

```
SELECT employee_id, last_name, salary, department_id
FROM employees
WHERE manager_id = &mgr_num
ORDER BY &order col;
```

SOLUSI LATIHAN BAB 02 NO 12

```
SELECT last_name FROM employees
```

WHERE last_name LIKE '__a%';

SOLUSI LATIHAN BAB 02 NO 13

```
SELECT last_name FROM employees
```

WHERE last_name LIKE '%a%'
AND last name LIKE '%e%';

SOLUSI LATIHAN BAB 02 NO 14

```
SELECT last name, job id, salary
```

FROM employees

WHERE job_id IN ('SA_REP', 'ST_CLERK')
AND salary NOT IN (2500, 3500, 7000);

SOLUSI LATIHAN BAB 02 NO 15

```
SELECT last_name "Employee", salary "Monthly Salary",
```

commission pct

FROM employees

WHERE commission pct = .20;

SOLUSI LATIHAN BAB 03 NO 01

```
SELECT sysdate "Date" FROM dual;
```

SOLUSI LATIHAN BAB 03 NO 02

```
SELECT employee_id, last_name, salary,
ROUND(salary * 1.155, 0) "New Salary"
FROM employees;
```

SOLUSI LATIHAN BAB 03 NO 03

```
SELECT employee_id, last_name, salary,
ROUND(salary * 1.155, 0) "New Salary"
FROM employees;
```

SOLUSI LATIHAN BAB 03 NO 04

SOLUSI LATIHAN BAB 03 NO 05_A

```
SELECT INITCAP(last_name) "Name",
LENGTH(last_name) "Length"
FROM employees
WHERE last_name LIKE 'J%'
OR last_name LIKE 'M%'
OR last_name LIKE 'A%'
ORDER BY last name;
```

SOLUSI LATIHAN BAB 03 NO 05 B

SOLUSI LATIHAN BAB 03 NO 06

SOLUSI LATIHAN BAB 03 NO 07

SOLUSI LATIHAN BAB 03 NO 08

SOLUSI LATIHAN BAB 03 NO 09

SOLUSI LATIHAN BAB 03 NO 10

SOLUSI LATIHAN BAB 03 NO 11

SOLUSI LATIHAN BAB 03 NO 12

SOLUSI LATIHAN BAB 03 NO 13

SOLUSI LATIHAN BAB 03 NO 14

```
SELECT job_id, CASE job_id

WHEN 'ST_CLERK' THEN 'E'

WHEN 'SA_REP' THEN 'D'

WHEN 'IT_PROG' THEN 'C'

WHEN 'ST_MAN' THEN 'B'

WHEN 'AD_PRES' THEN 'A'

ELSE 'O' END GRADE

FROM employees;
```

SOLUSI LATIHAN BAB 04 NO 04

```
SELECT ROUND(MAX(salary),0) "Maximum",
ROUND(MIN(salary),0) "Minimum",
ROUND(SUM(salary),0) "Sum",
ROUND(AVG(salary),0) "Average"
FROM employees;
```

SOLUSI LATIHAN BAB 04 NO 05

SOLUSI LATIHAN BAB 04 NO 06_A

```
SELECT job_id, COUNT(*)
FROM employees
GROUP BY job_id;
```

SOLUSI LATIHAN BAB 04 NO 06_B

```
SELECT job_id, COUNT(*)
FROM employees
WHERE job_id = '&job_title'
GROUP BY job id;
```

SOLUSI LATIHAN BAB 04 NO 07

```
SELECT COUNT(DISTINCT manager_id) "Number of Managers"
FROM employees;
```

SOLUSI LATIHAN BAB 04 NO 08

```
SELECT MAX(salary) - MIN(salary) DIFFERENCE FROM employees;
```

SOLUSI LATIHAN BAB 04 NO 09

```
SELECT manager_id, MIN(salary)
FROM employees
WHERE manager_id IS NOT NULL
GROUP BY manager_id
HAVING MIN(salary) > 6000
ORDER BY MIN(salary) DESC;
```

SOLUSI LATIHAN BAB 04 NO 10

```
SELECT COUNT(*) total,

SUM(DECODE(TO_CHAR(hire_date, 'YYYY'),1995,1,0))"1995",

SUM(DECODE(TO_CHAR(hire_date, 'YYYY'),1996,1,0))"1996",

SUM(DECODE(TO_CHAR(hire_date, 'YYYY'),1997,1,0))"1997",

SUM(DECODE(TO_CHAR(hire_date, 'YYYY'),1998,1,0))"1998"

FROM employees;
```

SOLUSI LATIHAN BAB 04 NO 11

```
SELECT job_id "Job",
SUM(DECODE(department_id , 20, salary)) "Dept 20",
SUM(DECODE(department_id , 50, salary)) "Dept 50",
SUM(DECODE(department_id , 80, salary)) "Dept 80",
SUM(DECODE(department_id , 90, salary)) "Dept 90",
SUM(salary) "Total"
FROM employees
GROUP BY job_id;
```

SOLUSI LATIHAN BAB 05 NO 01

```
SELECT location_id, street_address, city, state_province, country_name
FROM locations
NATURAL JOIN countries;
```

SOLUSI LATIHAN BAB 05 NO 02

```
SELECT last_name, department_id, department_name
FROM employees
JOIN departments
USING (department id);
```

SOLUSI LATIHAN BAB 05 NO 03

```
SELECT e.last_name, e.job_id, e.department_id, d.department_name
FROM employees e JOIN departments d
ON (e.department_id = d.department_id)
JOIN locations l
ON (d.location_id = l.location_id)
WHERE LOWER(l.city) = 'toronto';
```

SOLUSI LATIHAN BAB 05 NO 04

SOLUSI LATIHAN BAB 05 NO 05

SOLUSI LATIHAN BAB 05 NO 06

SOLUSI LATIHAN BAB 05 NO 07

SOLUSI LATIHAN BAB 05 NO 08

```
SELECT e.last_name, e.hire_date
FROM employees e JOIN employees davies
ON (davies.last_name = 'Davies')
WHERE davies.hire_date < e.hire_date;</pre>
```

SOLUSI LATIHAN BAB 05 NO 09

```
SELECT w.last_name, w.hire_date, m.last_name, m.hire_date
FROM employees w JOIN employees m
ON (w.manager_id = m.employee_id)
WHERE w.hire_date < m.hire_date;</pre>
```

SOLUSI LATIHAN BAB 06 NO 01

```
UNDEFINE Enter_name

SELECT last_name, hire_date

FROM employees

WHERE department_id = (SELECT department_id

FROM employees

WHERE last_name = '&&Enter_name')

AND last name <> '&Enter name';
```

SOLUSI LATIHAN BAB 06 NO 02

SOLUSI LATIHAN BAB 06 NO 03

SOLUSI LATIHAN BAB 06 NO 04_A

SOLUSI LATIHAN BAB 06 NO 04 B

SOLUSI LATIHAN BAB 06 NO 05

SOLUSI LATIHAN BAB 06 NO 06

SOLUSI LATIHAN BAB 06 NO 07

SOLUSI LATIHAN BAB 07 NO 01

```
SELECT department_id
FROM departments
MINUS
SELECT department_id
FROM employees
WHERE job id = 'ST CLERK';
```

SOLUSI LATIHAN BAB 07 NO 02

```
SELECT country_id, country_name
FROM countries
MINUS
SELECT country_id, country_name
FROM countries
NATURAL JOIN locations
NATURAL JOIN departments;
```

SOLUSI LATIHAN BAB 07 NO 03

```
COLUMN dummy NOPRINT
SELECT job_id, department_id, 'x' dummy
FROM
       employees
WHERE department id = 10
UNION
SELECT job id, department id, 'y' dummy
FROM
      employees
WHERE department id = 50
UNION
SELECT job id, department id, 'z' dummy
FROM
       employees
WHERE department id = 20
ORDER BY dummy;
COLUMN dummy PRINT
```

SOLUSI LATIHAN BAB 07 NO 04

```
SELECT employee_id,job_id
FROM employees
INTERSECT
SELECT employee_id,job_id
FROM job_history;
```

SOLUSI LATIHAN BAB 07 NO 05

```
SELECT last_name, department_id, TO_CHAR(null)
FROM employees
UNION
SELECT TO_CHAR(null), department_id, department_name
FROM departments;
```