

## PRAKTIKUM 4 PEMROGRAMAN BASIS DATA

**Nama : Made Baihaqi Aji Kumuda**

**NIM : 152011513029**

### SOAL PRAKTIKUM

1. Tampilkan hasil berikut dari rangkaian string:

a) Dini dari string “Purbandini”

<b>Code</b>	SELECT SUBSTR('Purbandini', 7,10) AS NAMA_DOSEN FROM DUAL;
<b>Hasil</b>	<div>+ Options</div> <div>NAMA_DOSEN</div> <div>dini</div>

b) Indah dari string “Indah Werdiningsih”

<b>Code</b>	SELECT SUBSTR('Indah Werdiningsih', 1,5) AS NAMA_DOSEN FROM DUAL;
<b>Hasil</b>	<div>+ Options</div> <div>NAMA_DOSEN</div> <div>Indah</div>

c) Nia dari string “Nania Nuzulita”

<b>Code</b>	SELECT SUBSTR('Indah Werdiningsih', 1,5) AS NAMA_DOSEN FROM DUAL;
<b>Hasil</b>	<div>+ Options</div> <div>NAMA_DOSEN</div> <div>Indah</div>

d) Putri dari string “Tesa Eranti Putri”

<b>Code</b>	SELECT SUBSTR('Tesa Eranti Putri', 12,15) AS NAMA_DOSEN FROM DUAL;
<b>Hasil</b>	+ Options NAMA_DOSEN Putri

2. Berapa panjang string dari nama “Nania Nuzulita”?

<b>Code</b>	SELECT CHAR_LENGTH ('Nania Nuzulita') FROM DUAL;
<b>Hasil</b>	+ Options CHAR_LENGTH ('Nania Nuzulita') 14

3. Tampilkan hasil berikut ini:

a) \*\*\*\*\*D3SI

<b>Code</b>	SELECT LPAD('D3SI',9 , '*') AS LPAD FROM DUAL;
<b>Hasil</b>	+ Options LPAD *****D3SI

b) Prodi\*\*\*\*\*

<b>Code</b>	SELECT RPAD('Prodi' ,9 , '*') AS RPAD FROM DUAL;
<b>Hasil</b>	+ Options RPAD Prodi*****

4. Buatlah query untuk menampilkan nama pegawai yang jumlah hurufnya lebih dari 15

<b>Code</b>	<pre>SELECT CONCAT(FIRST_NAME,' ',LAST_NAME) AS "Nama_Pegawai" FROM EMPLOYEES WHERE LENGTH(CONCAT(FIRST_NAME,' ',LAST_NAME))&gt;15</pre>
<b>Hasil</b>	<p>+ Options</p> <p><b>Nama_Pegawai</b></p> <p>Alexander Hunold</p> <p>Jose Manuel Urman</p> <p>Karen Colmenares</p> <p>Irene Mikkilineni</p> <p>Hazel Philtanker</p> <p>Alberto Errazuriz</p> <p>Gerald Cambrault</p> <p>Christopher Olsen</p> <p>Nanette Cambrault</p> <p>Nandita Sarchand</p> <p>Michael Hartstein</p>

5. Tampilkan nama pegawai dan salary pegawai yang employee\_id antara 100 sampai 102. Kolom ketiga adalah salary dibagi 1.55 kemudian dibulatkan menjadi dua (2) angka dibelakang decimal

Code	<pre>SELECT EMPLOYEE_ID, CONCAT(FIRST_NAME,' ',LAST_NAME) AS &gt;Nama_Pegawai", SALARY, ROUND((SALARY/1.55),2) FROM EMPLOYEES WHERE EMPLOYEE_ID BETWEEN 100 AND 102</pre>																								
Hasil	<div>+ Options</div> <table><thead><tr><th></th><th></th><th>EMPLOYEE_ID</th><th>Nama_Pegawai</th><th>SALARY</th><th>ROUND((SALARY/1.55),2)</th></tr></thead><tbody><tr><td><input type="checkbox"/></td><td> Edit  Copy  Delete</td><td>100</td><td>Steven King</td><td>24000.00</td><td>15483.87</td></tr><tr><td><input type="checkbox"/></td><td> Edit  Copy  Delete</td><td>101</td><td>Neena Kochhar</td><td>17000.00</td><td>10967.74</td></tr><tr><td><input type="checkbox"/></td><td> Edit  Copy  Delete</td><td>102</td><td>Lex De Haan</td><td>17000.00</td><td>10967.74</td></tr></tbody></table>			EMPLOYEE_ID	Nama_Pegawai	SALARY	ROUND((SALARY/1.55),2)	<input type="checkbox"/>	Edit  Copy  Delete	100	Steven King	24000.00	15483.87	<input type="checkbox"/>	Edit  Copy  Delete	101	Neena Kochhar	17000.00	10967.74	<input type="checkbox"/>	Edit  Copy  Delete	102	Lex De Haan	17000.00	10967.74
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6. Gunakan tabel DUAL untuk menghitung :

a) 845.553 – dibulatkan ke satu angka dibelakang decimal

<b>Code</b>	SELECT ROUND(845.553,1) AS "SATU ANGKA DIBELAKANG KOMA" FROM DUAL
<b>Hasil</b>	+ Options SATU ANGKA DIBELAKANG KOMA 845.6

b) 30695.348 – dibulatkan ke dua angka dibelakang decimal

<b>Code</b>	SELECT ROUND(30695.348,2) AS "DUA ANGKA DIBELAKANG KOMA" FROM DUAL
<b>Hasil</b>	+ Options DUA ANGKA DIBELAKANG KOMA 30695.35

c) 30695.348 – dibulatkan ke -2 angka dibelakan decimal

<b>Code</b>	SELECT ROUND(30695.348,-2) AS "- DIBULATKAN KE -2 ANGKA DIBELAKANG" FROM DUAL
<b>Hasil</b>	- DIBULATKAN KE -2 ANGKA DIBELAKANG 30700

7. Untuk tiap pegawai tampilkan nama pegawai, hitung jumlah bulan pegawai tersebut telah bekerja, lakukan pembulatan keatas

<b>Code</b>	SELECT CONCAT(FIRST_NAME,' ', LAST_NAME) AS 'Nama', ROUND(TIMESTAMPDIFF(MONTH, HIRE_DATE, SYSDATE()),'Month') AS '(Bulan) Jumlah Lama Kerja Pegawai'  FROM employees;																																																				
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8. Tampilkan nama pegawai, hire\_date dan lama bekerja (tahun) yang telah bekerja lebih dari 25 tahun.

Code	<pre>SELECT CONCAT (first_name, last_name) AS "Nama", hire_date, ROUND(DATEDIFF(NOW(),hire_date)/365,0) AS YEAR FROM employees WHERE ROUND(DATEDIFF(NOW(),hire_date)/365,0) &gt; 25</pre>																																																																																																																																																																																								
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