

PRAKTIKUM 8

PEMROGRAMAN BASIS DATA

“VIEW, INDEX, SUBQUERY”

Nama : Made Baihaqi Aji Kumuda

NIM : 152011513029

1. Buat view EMP_VU yang berisi nomer pegawai, nama pegawai, nomer department yang berasal dari table pegawai. Ubah judul kolom nama pegawai menjadi PEGAWAI.

Code	<pre>CREATE VIEW EMP_VU AS SELECT employee_id, CONCAT(first_name, ' ', last_name) AS PEGAWAI, department_id FROM employees;</pre>
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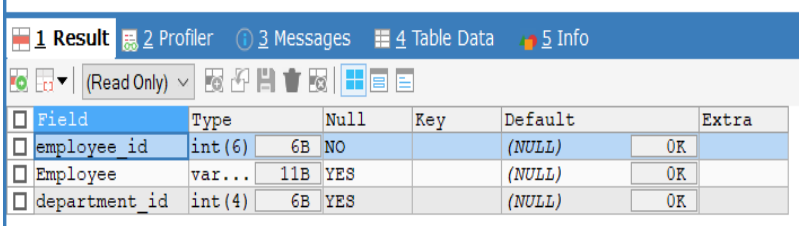
2. Tampilkan view EMP_VU

Code	<pre>SELECT * FROM EMP_VU;</pre>																																																
Hasil	<table><tr><th><input type="checkbox"/> employee_id</th><th>PEGAWAI</th><th>department_id</th></tr><tr><td><input type="checkbox"/> 100</td><td>Steven King</td><td>90</td></tr><tr><td><input type="checkbox"/> 101</td><td>Neena Kochhar</td><td>90</td></tr><tr><td><input type="checkbox"/> 102</td><td>Lex De Haan</td><td>90</td></tr><tr><td><input type="checkbox"/> 103</td><td>Alexander Hunold</td><td>60</td></tr><tr><td><input type="checkbox"/> 104</td><td>Bruce Ernst</td><td>60</td></tr><tr><td><input type="checkbox"/> 105</td><td>David Austin</td><td>60</td></tr><tr><td><input type="checkbox"/> 106</td><td>Valli Pataballa</td><td>60</td></tr><tr><td><input type="checkbox"/> 107</td><td>Diana Lorentz</td><td>60</td></tr><tr><td><input type="checkbox"/> 108</td><td>Nancy Greenberg</td><td>100</td></tr><tr><td><input type="checkbox"/> 109</td><td>Daniel Faviet</td><td>100</td></tr><tr><td><input type="checkbox"/> 110</td><td>John Chen</td><td>100</td></tr><tr><td><input type="checkbox"/> 111</td><td>Ismael Sciarra</td><td>100</td></tr><tr><td><input type="checkbox"/> 112</td><td>Jose Manuel Urman</td><td>100</td></tr><tr><td><input type="checkbox"/> 113</td><td>Luis Popp</td><td>100</td></tr><tr><td><input type="checkbox"/> 114</td><td>Den Raphaely</td><td>30</td></tr></table>	<input type="checkbox"/> employee_id	PEGAWAI	department_id	<input type="checkbox"/> 100	Steven King	90	<input type="checkbox"/> 101	Neena Kochhar	90	<input type="checkbox"/> 102	Lex De Haan	90	<input type="checkbox"/> 103	Alexander Hunold	60	<input type="checkbox"/> 104	Bruce Ernst	60	<input type="checkbox"/> 105	David Austin	60	<input type="checkbox"/> 106	Valli Pataballa	60	<input type="checkbox"/> 107	Diana Lorentz	60	<input type="checkbox"/> 108	Nancy Greenberg	100	<input type="checkbox"/> 109	Daniel Faviet	100	<input type="checkbox"/> 110	John Chen	100	<input type="checkbox"/> 111	Ismael Sciarra	100	<input type="checkbox"/> 112	Jose Manuel Urman	100	<input type="checkbox"/> 113	Luis Popp	100	<input type="checkbox"/> 114	Den Raphaely	30
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3. Buat view dengan nama DEPT20 yang berisi nomer, nama dan gaji dari pegawai yang bekerja di department 20. Beri judul kolom EMPLOYEE_ID, EMPLOYEE, dan DEPARTMENT_ID.

Code	<pre>CREATE VIEW DEPT20 AS SELECT employee_id, CONCAT(first_name, ' ', last_name) AS Employee, department_id FROM employees WHERE department_id = 20;</pre>
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4. Tampilkan struktur dari view DEPT20

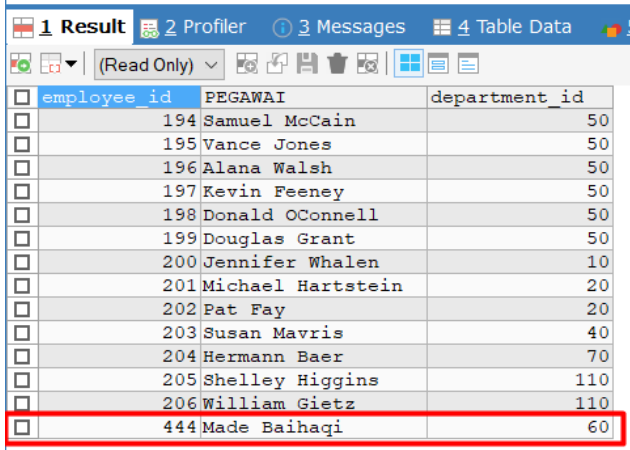
Code	DESCRIBE DEPT20;
Hasil	

5. Buat view SALARY_VU yang berisi nama pegawai, nama department, gaji dan grade dari gaji untuk semua pegawai. Beri judul PEGAWAI, DEPARTMENT, GAJI, GRADE.embuat table detail_katalog

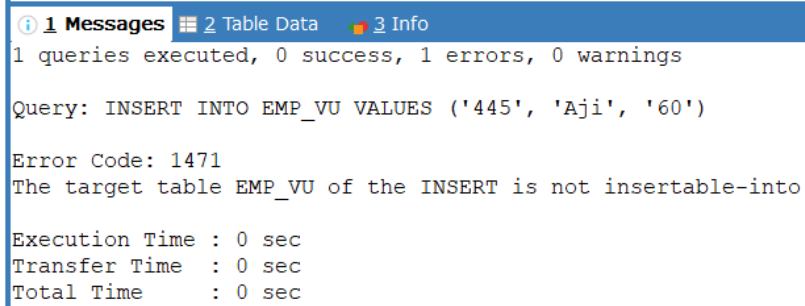
Code	<pre>CREATE VIEW SALARY_VU AS SELECT CONCAT(e.first_name, ' ', e.last_name) AS PEGAWAI, d.department_name AS 'DEPARTMENT', salary AS 'GAJI' FROM employees e JOIN departments d ON e.department_id = d.department_id</pre>
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6. Mengacu pada view yang sudah dibuat pada no. 1. Tabel pegawai telah menjadi base table bagi view EMP_VU. Pada base table, lakukan penambahan data. Apa yang terjadi di view EMP_VU. Capture hasil kerjaan kalian.

Code	<p>Pertama Menambahkan data di table employees terlebih dahulu</p> <pre>INSERT INTO employees VALUES (444, 'Made', 'Baihaqi', 'bai@com', 4444444444, '2021-02-27', 'IT_PROG', 44000.00, NULL, 103, 60)</pre>
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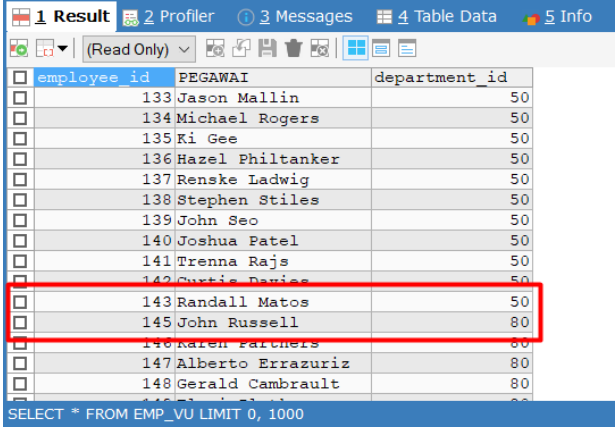
	<p>Kemudian meilhat view EMP_VU kembali</p> <p>SELECT * FROM EMP_VU;</p>																																													
Hasil	 <table><thead><tr><th>employee_id</th><th>PEGAWAI</th><th>department_id</th></tr></thead><tbody><tr><td>194</td><td>Samuel McCain</td><td>50</td></tr><tr><td>195</td><td>Vance Jones</td><td>50</td></tr><tr><td>196</td><td>Alana Walsh</td><td>50</td></tr><tr><td>197</td><td>Kevin Feeney</td><td>50</td></tr><tr><td>198</td><td>Donald OConnell</td><td>50</td></tr><tr><td>199</td><td>Douglas Grant</td><td>50</td></tr><tr><td>200</td><td>Jennifer Whalen</td><td>10</td></tr><tr><td>201</td><td>Michael Hartstein</td><td>20</td></tr><tr><td>202</td><td>Pat Fay</td><td>20</td></tr><tr><td>203</td><td>Susan Mavris</td><td>40</td></tr><tr><td>204</td><td>Hermann Baer</td><td>70</td></tr><tr><td>205</td><td>Shelley Higgins</td><td>110</td></tr><tr><td>206</td><td>William Gietz</td><td>110</td></tr><tr><td>444</td><td>Made Baihaqi</td><td>60</td></tr></tbody></table>	employee_id	PEGAWAI	department_id	194	Samuel McCain	50	195	Vance Jones	50	196	Alana Walsh	50	197	Kevin Feeney	50	198	Donald OConnell	50	199	Douglas Grant	50	200	Jennifer Whalen	10	201	Michael Hartstein	20	202	Pat Fay	20	203	Susan Mavris	40	204	Hermann Baer	70	205	Shelley Higgins	110	206	William Gietz	110	444	Made Baihaqi	60
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7. Berbeda dengan no. 6, lakukan penambahan data melalui view EMP_VU. Apa yang terjadi pada base table? Bisakah kalian melakukannya? Mengapa hal itu bisa terjadi Capture hasil kerjaan kalian

Code	<pre>INSERT INTO EMP_VU VALUES ('445', 'Aji', '60');</pre>
Hasil	 <p>1 Messages 2 Table Data 3 Info</p> <p>1 queries executed, 0 success, 1 errors, 0 warnings</p> <p>Query: INSERT INTO EMP_VU VALUES ('445', 'Aji', '60')</p> <p>Error Code: 1471 The target table EMP_VU of the INSERT is not insertable-into</p> <p>Execution Time : 0 sec Transfer Time : 0 sec Total Time : 0 sec</p>

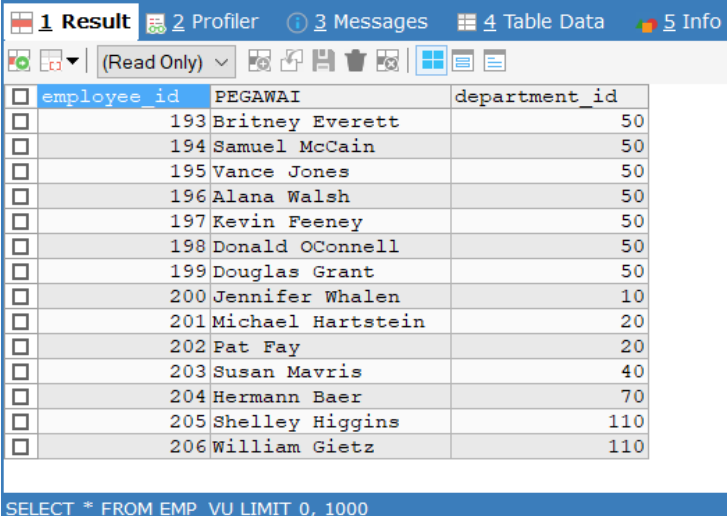
Jawaban : Karena data pada EMP_VU yaitu mengambil data di table employees, maka sebelum itu harus diinputkan terlebih dahulu di table employees bukan di view EMP_VU

8. Lakukan penghapusan pada salah satu record di view EMP_VU. Apa yang terjadi pada base table? Bisakah kalian melakukannya? Capture hasil kerjaan kalian

Code	DELETE FROM EMP_VU WHERE employee_id = 144; SELECT * FROM EMP_VU;
Hasil	

***Dapat dilihat bahwa id 144 sudah terhapus**

9. Lakukan penghapusan pada record yang terakhir ditambahkan di base table EMP_VU. Apa yang terjadi pada view EMP_VU? Bisakah kalian melakukannya? Capture hasil kerjaan kalian

Code	DELETE FROM EMP_VU WHERE employee_id = 444;);
Hasil	

***Dapat dilihat bahwa id 444 sudah terhapus**

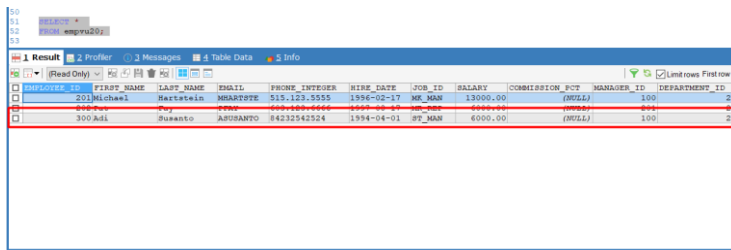
10. Jalankan query di bawah ini :

```
CREATE OR REPLACE VIEW empvu20
AS SELECT *
FROM employees
WHERE department_id = 20
WITH CHECK OPTION ;
```

Masukkan data berikut melalui view empvu20

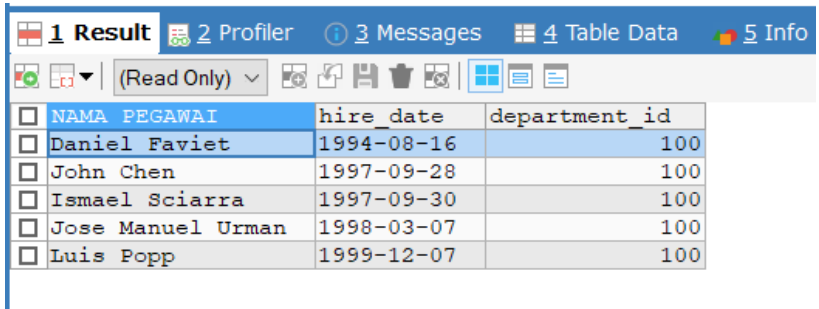
Data Pertama :	Data Kedua:
Employee_id : 300	Employee_id : 301
First_name : Adi	First_name : Rachmat
Last_name : Susanto	Last_name : Hidayat
Email : ASUSANTO	Email : RHIDAYAT
Phone Number : 084232542524	Phone Number : 08423254255
Hire_Date : 01-04-1994	Hire_Date : 01-04-1999
Job_id : ST_MAN	Job_id : IT_PROG
Salary : 6000	Salary : 6200
Commission_pct :	Commission_pct : 0.4
Manager_id : 100	Manager_id : 100
Department_id : 20	Department_id : 50

Dari kedua data tersebut, data mana yang bisa masuk? Mengapa demikian, jelaskan alasannya! Capture hasil ujicobanya

Code	<pre>CREATE OR REPLACE VIEW empvu20 AS SELECT * FROM employees WHERE department_id = 20 WITH CHECK OPTION ; INSERT INTO empvu20 VALUES (300, 'Adi', 'Susanto', 'ASUSANTO', 084232542524, '1994-04-01', 'ST_MAN', 6000, NULL, 100, 20); INSERT INTO empvu20 VALUES (301, 'Rachmat', 'Hidayat', 'RHIDAYAT', 08423254255, '1999-04-01', 'IT_PROG', 6200, 0.4, 100, 50);</pre>
Hasil	

***Dapat dilihat bahwa data pertama dengan id 300 saja yang dapat diinputkan di view empvu20, hal ini dikarenakan menggunakan perintah (WHERE departement_id = 20) yang berarti hanya id dengan nilai departemen_id 20 saja yang dapat dimasukkan di dalam view empvu20 tersebut. Sedangkan data ke-2 memiliki departemen_id yang dimana nilai itu tidak sesuai dengan kondisi perintah WHERE**

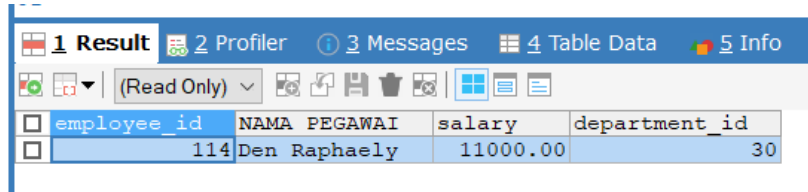
11. Buatlah query untuk menampilkan data nama pegawai dan tanggal mulai bekerja untuk semua pegawai yang bekerja di department yang sama dengan 'Nancy Greenberg' tidak termasuk 'Nancy Greenberg'.

Code	<pre>SELECT CONCAT (first_name, ', ', last_name) AS "NAMA PEGAWAI", hire_date, department_id FROM employees WHERE department_id = (SELECT department_id FROM employees WHERE CONCAT (first_name, ', ', last_name)= 'Nancy Greenberg') AND CONCAT (first_name, ', ', last_name)!= 'Nancy Greenberg'</pre>																		
Hasil	 <table><tr><th>NAMA PEGAWAI</th><th>hire_date</th><th>department_id</th></tr><tr><td>Daniel Faviat</td><td>1994-08-16</td><td>100</td></tr><tr><td>John Chen</td><td>1997-09-28</td><td>100</td></tr><tr><td>Ismael Sciarra</td><td>1997-09-30</td><td>100</td></tr><tr><td>Jose Manuel Urman</td><td>1998-03-07</td><td>100</td></tr><tr><td>Luis Popp</td><td>1999-12-07</td><td>100</td></tr></table>	NAMA PEGAWAI	hire_date	department_id	Daniel Faviat	1994-08-16	100	John Chen	1997-09-28	100	Ismael Sciarra	1997-09-30	100	Jose Manuel Urman	1998-03-07	100	Luis Popp	1999-12-07	100
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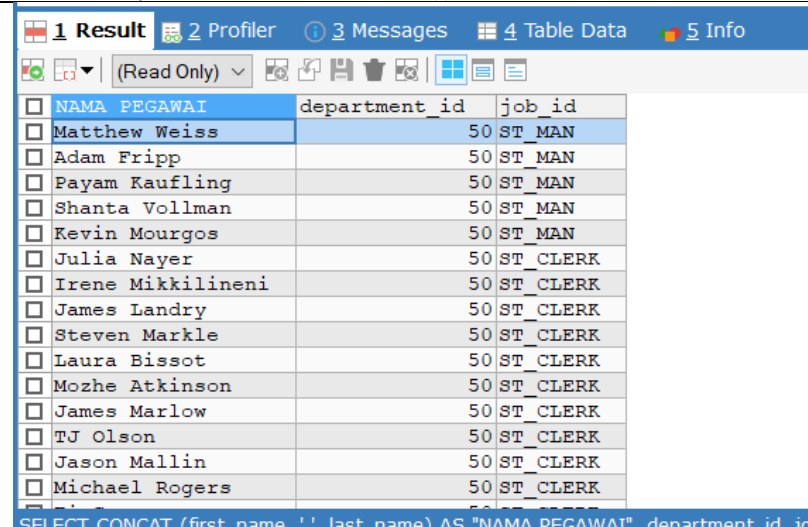
12. Buatlah query untuk menampilkan nomer dan nama pegawai untuk semua pegawai yang gajinya lebih dari rata-rata. Urutkan menurun berdasarkan besar gaji.

Code	<pre>SELECT employee_id, CONCAT (first_name, ', ', last_name) AS "NAMA PEGAWAI" , salary FROM employees WHERE salary > (SELECT AVG(salary) FROM employees) ORDER BY salary DESC;</pre>																																																
Hasil	<div><div><div><div>1 Result</div><div>2 Profiler</div><div>3 Messages</div><div>4 Table Data</div><div>5 Info</div></div><div><div><div><div></div><div></div><div></div></div><div>(Read Only)</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div></div></div></div><table><thead><tr><th>employee_id</th><th>NAMA PEGAWAI</th><th>salary</th></tr></thead><tbody><tr><td>100</td><td>Steven King</td><td>24000.00</td></tr><tr><td>101</td><td>Neena Kochhar</td><td>17000.00</td></tr><tr><td>102</td><td>Lex De Haan</td><td>17000.00</td></tr><tr><td>145</td><td>John Russell</td><td>14000.00</td></tr><tr><td>146</td><td>Karen Partners</td><td>13500.00</td></tr><tr><td>201</td><td>Michael Hartstein</td><td>13000.00</td></tr><tr><td>108</td><td>Nancy Greenberg</td><td>12000.00</td></tr><tr><td>147</td><td>Alberto Errazuriz</td><td>12000.00</td></tr><tr><td>205</td><td>Shelley Higgins</td><td>12000.00</td></tr><tr><td>168</td><td>Lisa Ozer</td><td>11500.00</td></tr><tr><td>114</td><td>Den Raphaely</td><td>11000.00</td></tr><tr><td>174</td><td>Ellen Abel</td><td>11000.00</td></tr><tr><td>148</td><td>Gerald Cambrault</td><td>11000.00</td></tr><tr><td>162</td><td>Clara Vishney</td><td>10500.00</td></tr><tr><td>149</td><td>Eleni Zlotkey</td><td>10500.00</td></tr></tbody></table><div><pre>SELECT employee_id, CONCAT (first_name, ', ', last_name) AS "NAMA PEGAWAI"</pre></div></div></div>	employee_id	NAMA PEGAWAI	salary	100	Steven King	24000.00	101	Neena Kochhar	17000.00	102	Lex De Haan	17000.00	145	John Russell	14000.00	146	Karen Partners	13500.00	201	Michael Hartstein	13000.00	108	Nancy Greenberg	12000.00	147	Alberto Errazuriz	12000.00	205	Shelley Higgins	12000.00	168	Lisa Ozer	11500.00	114	Den Raphaely	11000.00	174	Ellen Abel	11000.00	148	Gerald Cambrault	11000.00	162	Clara Vishney	10500.00	149	Eleni Zlotkey	10500.00
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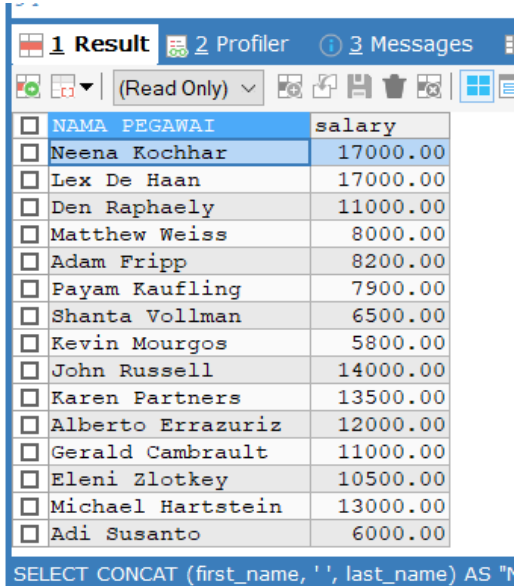
13. Buatlah query untuk menampilkan nomer, nama pegawai dan gaji pegawai yang gajinya lebih besar dari gaji rata-rata di department PURCHASING untuk pegawai yang bekerja di department PURCHASING

Code	<pre> SELECT employee_id, CONCAT (first_name, ' ', last_name) AS "NAMA PEGAWAI" , salary, department_id FROM employees WHERE salary > (SELECT AVG(salary) FROM employees GROUP BY DEPARTMENT_ID HAVING department_id = (SELECT department_id FROM departments WHERE department_name = 'PURCHASING')) AND department_id = (SELECT department_id FROM departments WHERE department_name = 'PURCHASING'); </pre>
Hasil	

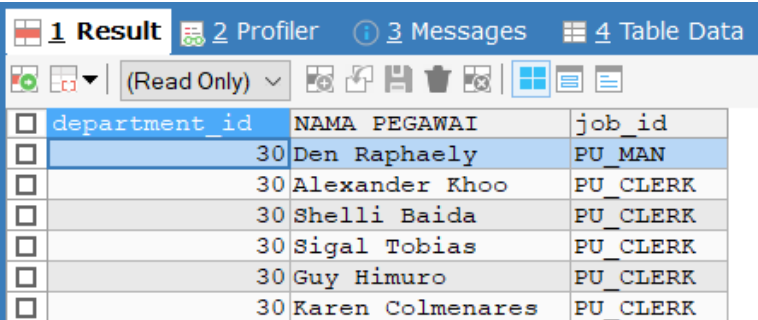
14. Buatlah query untuk menampilkan nama pegawai, nomer department dan pekerjaan untuk semua pegawai yang department tempatnya bekerja berlokasi di kota 'South San Francisco'.

Code	<pre> SELECT CONCAT (first_name, ' ', last_name) AS "NAMA PEGAWAI", department_id, job_id FROM employees WHERE department_id = (SELECT department_id FROM departments WHERE location_id = (SELECT location_id FROM locations WHERE city = 'South San Francisco')); </pre>
Hasil	

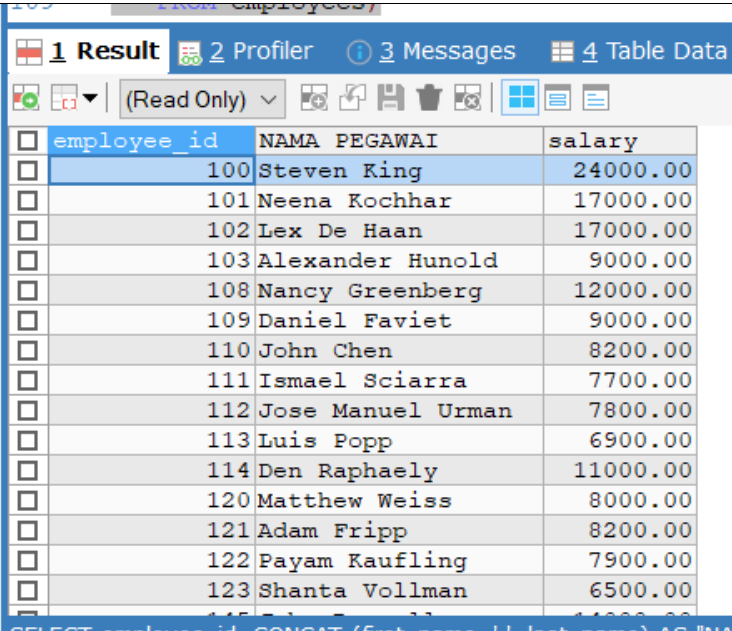
15. Buatlah query untuk menampilkan nama dan gaji dari semua pegawai yang merupakan bawahan dari 'KING'.

Code	<pre>SELECT CONCAT (first_name, ' ', last_name) AS "NAMA PEGAWAI", salary FROM employees WHERE manager_id IN (SELECT employee_id FROM employees WHERE UPPER(last_name) = 'KING')</pre>																																
Hasil	 <table border="1"> <thead> <tr> <th>NAMA PEGAWAI</th> <th>salary</th> </tr> </thead> <tbody> <tr><td>Neena Kochhar</td><td>17000.00</td></tr> <tr><td>Lex De Haan</td><td>17000.00</td></tr> <tr><td>Den Raphaely</td><td>11000.00</td></tr> <tr><td>Matthew Weiss</td><td>8000.00</td></tr> <tr><td>Adam Fripp</td><td>8200.00</td></tr> <tr><td>Payam Kaufling</td><td>7900.00</td></tr> <tr><td>Shanta Vollman</td><td>6500.00</td></tr> <tr><td>Kevin Mourgos</td><td>5800.00</td></tr> <tr><td>John Russell</td><td>14000.00</td></tr> <tr><td>Karen Partners</td><td>13500.00</td></tr> <tr><td>Alberto Errazuriz</td><td>12000.00</td></tr> <tr><td>Gerald Cambrault</td><td>11000.00</td></tr> <tr><td>Eleni Zlotkey</td><td>10500.00</td></tr> <tr><td>Michael Hartstein</td><td>13000.00</td></tr> <tr><td>Adi Susanto</td><td>6000.00</td></tr> </tbody> </table>	NAMA PEGAWAI	salary	Neena Kochhar	17000.00	Lex De Haan	17000.00	Den Raphaely	11000.00	Matthew Weiss	8000.00	Adam Fripp	8200.00	Payam Kaufling	7900.00	Shanta Vollman	6500.00	Kevin Mourgos	5800.00	John Russell	14000.00	Karen Partners	13500.00	Alberto Errazuriz	12000.00	Gerald Cambrault	11000.00	Eleni Zlotkey	10500.00	Michael Hartstein	13000.00	Adi Susanto	6000.00
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16. Buatlah query yang menampilkan nomer department, nama pegawai dan pekerjaan dari semua pegawai yang ada di department PURCHASING

Code	<pre>SELECT department_id, CONCAT (first_name, ' ', last_name) AS "NAMA PEGAWAI", job_id FROM employees WHERE department_id = (SELECT department_id FROM departments WHERE UPPER(department_name) = 'PURCHASING')</pre>
Hasil	

17. Buatlah query untuk menampilkan nomer dan nama pegawai untuk semua pegawai yang bekerja di department yang sama dengan pegawai yang memiliki nama yang mengandung huruf 'T', dan gaji yang dimiliki lebih besar daripada rata-rata gaji .

Code	<pre>SELECT employee_id, CONCAT (first_name, ', ', last_name) AS "NAMA PEGAWAI", salary FROM employees WHERE department_id IN (SELECT department_id FROM employees WHERE CONCAT (first_name, ', ', last_name) LIKE('%T%')) AND salary > (SELECT AVG(salary) FROM employees)</pre>																																																
Hasil	 <p>The screenshot shows the '1 Result' tab in a SQL client. The table has three columns: employee_id, NAMA PEGAWAI, and salary. The data is as follows:</p> <table><tr><th>employee_id</th><th>NAMA PEGAWAI</th><th>salary</th></tr><tr><td>100</td><td>Steven King</td><td>24000.00</td></tr><tr><td>101</td><td>Neena Kochhar</td><td>17000.00</td></tr><tr><td>102</td><td>Lex De Haan</td><td>17000.00</td></tr><tr><td>103</td><td>Alexander Hunold</td><td>9000.00</td></tr><tr><td>108</td><td>Nancy Greenberg</td><td>12000.00</td></tr><tr><td>109</td><td>Daniel Faviet</td><td>9000.00</td></tr><tr><td>110</td><td>John Chen</td><td>8200.00</td></tr><tr><td>111</td><td>Ismael Sciarra</td><td>7700.00</td></tr><tr><td>112</td><td>Jose Manuel Urman</td><td>7800.00</td></tr><tr><td>113</td><td>Luis Popp</td><td>6900.00</td></tr><tr><td>114</td><td>Den Raphaely</td><td>11000.00</td></tr><tr><td>120</td><td>Matthew Weiss</td><td>8000.00</td></tr><tr><td>121</td><td>Adam Fripp</td><td>8200.00</td></tr><tr><td>122</td><td>Payam Kaufling</td><td>7900.00</td></tr><tr><td>123</td><td>Shanta Vollman</td><td>6500.00</td></tr></table>	employee_id	NAMA PEGAWAI	salary	100	Steven King	24000.00	101	Neena Kochhar	17000.00	102	Lex De Haan	17000.00	103	Alexander Hunold	9000.00	108	Nancy Greenberg	12000.00	109	Daniel Faviet	9000.00	110	John Chen	8200.00	111	Ismael Sciarra	7700.00	112	Jose Manuel Urman	7800.00	113	Luis Popp	6900.00	114	Den Raphaely	11000.00	120	Matthew Weiss	8000.00	121	Adam Fripp	8200.00	122	Payam Kaufling	7900.00	123	Shanta Vollman	6500.00
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