

QUESTION 1-

Write a SQL statement to change the salary of an employee to 8000 whose ID is 105, if the existing salary is less than 5000

OUTPUT

```
UPDATE employees
SET salary= 8000
WHERE employee_id =105 AND salary < 5000;
```

```
SELECT * FROM employees
WHERE employee_id=105;
```

Data Output Explain Messages Notifications

| employee_id | first_name | last_name | email | phone_number | hire_date | job_id | salary | commission_pct |
|-------------|------------|-----------|---------|--------------|------------|---------|---------|----------------|
| 105 | David | Austin | DAUSTIN | 590.423.4569 | 1987-06-22 | IT_PROG | 8000.00 | |

QUESTION 2-

Write a SQL statement to change the job ID of the employee which ID is 118 to SH_CLERK if the employee belongs to a department which ID is 30 and the existing job ID does not start with SH.

OUTPUT

```
SELECT * FROM employees
WHERE employee_id=118;
```

Data Output Explain Messages Notifications

| employee_id | first_name | last_name | email | phone_number | hire_date | job_id | salary | commission_pct | manager_id | department_id |
|-------------|------------|-----------|---------|--------------|------------|----------|---------|----------------|------------|---------------|
| 118 | Guy | Himuro | GHIMURO | 515.127.4565 | 1987-07-05 | PU_CLERK | 2600.00 | 0.00 | 114 | 30 |

```
UPDATE employees SET JOB_ID= 'SH_CLERK'
WHERE employee_id=118
AND department_id=30 |
AND NOT JOB_ID LIKE 'SH%';
```

Data Output Explain Messages Notifications

| employee_id | first_name | last_name | email | phone_number | hire_date | job_id | salary | commission_pct | manager_id | department_id |
|-------------|------------|-----------|---------|--------------|------------|----------|---------|----------------|------------|---------------|
| 118 | Guy | Himuro | GHIMURO | 515.127.4565 | 1987-07-05 | PU_CLERK | 2600.00 | 0.00 | 114 | 30 |

QUESTION 3

Write a SQL statement to increase the salary of employees under the department 40, 90 and 110 according to the company rules that, the salary will be increased by 25% of the department 40, 15% for department 90 and 10% of the department 110 and the rest of the department will remain same.

```

update employees
set salary=salary+salary*0.25 where department_id=40;

update employees
set salary=salary+salary*0.15 where department_id=90;

update employees
set salary=salary+salary*0.10 where department_id=110;

```

| Data Output | | Explain | Messages | Notifications | | | | | | | | | | | | | | | | |
|-------------|-------------|------------------------|----------|------------------------|--|------------------------|--|------------------------|--|------------|--|------------------------|--|---------------|--|----------------|--|-------------|--|---------------|
| | employee_id | first_name | | last_name | | email | | phone_number | | hire_date | | job_id | | salary | | commission_pct | | manager_id | | department_id |
| | numeric (6) | character varying (20) | | character varying (25) | | character varying (25) | | character varying (20) | | date | | character varying (10) | | numeric (8,2) | | numeric (2,2) | | numeric (6) | | numeric (4) |
| 1 | 203 | Susan | | Mavris | | SMAVRIS | | 515.123.7777 | | 1987-09-28 | | HR_REP | | 8125.00 | | 0.00 | | 101 | | 40 |

| | employee_id | first_name | | last_name | | email | | phone_number | | hire_date | | job_id | | salary | | commission_pct | | manager_id | | department_id |
|---|-------------|------------------------|--|------------------------|--|------------------------|--|------------------------|--|------------|--|------------------------|--|---------------|--|----------------|--|-------------|--|---------------|
| | numeric (6) | character varying (20) | | character varying (25) | | character varying (25) | | character varying (20) | | date | | character varying (10) | | numeric (8,2) | | numeric (2,2) | | numeric (6) | | numeric (4) |
| 1 | 100 | Steven | | King | | SKING | | 515.123.4567 | | 1987-06-17 | | AD_PRES | | 27600.00 | | 0.00 | | 0 | | 90 |
| 2 | 101 | Neena | | Kochhar | | NKOCHHAR | | 515.123.4568 | | 1987-06-18 | | AD_VP | | 19550.00 | | 0.00 | | 100 | | 90 |
| 3 | 102 | Lex | | De Haan | | LDEHAAN | | 515.123.4569 | | 1987-06-19 | | AD_VP | | 19550.00 | | 0.00 | | 100 | | 90 |

| | employee_id | first_name | | last_name | | email | | phone_number | | hire_date | | job_id | | salary | | commission_pct | | manager_id | | department_id |
|---|-------------|------------------------|--|------------------------|--|------------------------|--|------------------------|--|------------|--|------------------------|--|---------------|--|----------------|--|-------------|--|---------------|
| | numeric (6) | character varying (20) | | character varying (25) | | character varying (25) | | character varying (20) | | date | | character varying (10) | | numeric (8,2) | | numeric (2,2) | | numeric (6) | | numeric (4) |
| 1 | 205 | Shelley | | Higgins | | SHIGGINS | | 515.123.8080 | | 1987-09-30 | | AC_MGR | | 13200.00 | | 0.00 | | 101 | | 110 |
| 2 | 206 | William | | Gietz | | WGIEZT | | 515.123.8181 | | 1987-10-01 | | AC_ACCOUNT | | 9130.00 | | 0.00 | | 205 | | 110 |

QUESTION 4

Write a SQL statement to change the email column of the employees table with 'not available' for those employees who belongs to the 'Accounting' department.

```

198 SELECT * FROM employees
199 WHERE job_id ILIKE '%ACCOUNT';
200

```

| Data Output | | | | | | | | | | | | Explain | Messages | Notifications |
|-------------|----------------------------|--------------------------------------|-------------------------------------|---------------------------------|--|-------------------|----------------------------------|-------------------------|---------------------------------|---------------------------|------------------------------|---------|----------|---------------|
| | employee_id numeric (6) | first_name character varying (20) | last_name character varying (25) | email character varying (25) | phone_number character varying (20) | hire_date date | job_id character varying (10) | salary numeric (8,2) | commission_pct numeric (2,2) | manager_id numeric (6) | department_id numeric (4) | | | |
| 1 | 109 | Daniel | Faviet | DFAVIET | 515.124.4169 | 1987-06-26 | FL_ACCOUNT | 9000.00 | 0.00 | 108 | 100 | | | |
| 2 | 110 | John | Chen | JCHEN | 515.124.4269 | 1987-06-27 | FL_ACCOUNT | 8200.00 | 0.00 | 108 | 100 | | | |
| 3 | 111 | Ismael | Sciarra | ISCIARRA | 515.124.4369 | 1987-06-28 | FL_ACCOUNT | 7700.00 | 0.00 | 108 | 100 | | | |
| 4 | 112 | Jose Manuel | Urman | JMURMAN | 515.124.4469 | 1987-06-29 | FL_ACCOUNT | 7800.00 | 0.00 | 108 | 100 | | | |
| 5 | 113 | Luis | Popp | LPOPP | 515.124.4567 | 1987-06-30 | FL_ACCOUNT | 6900.00 | 0.00 | 108 | 100 | | | |
| 6 | 206 | William | Gietz | WGIEZ | 515.123.8181 | 1987-10-01 | AC_ACCOUNT | 9130.00 | 0.00 | 205 | 110 | | | |

OUTPUT

```

197 |
198 UPDATE employees set email='Not available'
199 WHERE job_id ILIKE '%ACCOUNT';
200

```

| Data Output | | | | | | | | | | | | Explain | Messages | Notifications |
|-------------|-------------|------------------------|------------------------|------------------------|------------------------|------------|------------------------|---------------|----------------|-------------|---------------|---------|----------|---------------|
| | employee_id | first_name | last_name | email | phone_number | hire_date | job_id | salary | commission_pct | manager_id | department_id | | | |
| | numeric (6) | character varying (20) | character varying (25) | character varying (25) | character varying (20) | date | character varying (10) | numeric (8,2) | numeric (2,2) | numeric (6) | numeric (4) | | | |
| 1 | 109 | Daniel | Faviet | Not available | 515.124.4169 | 1987-06-26 | FL_ACCOUNT | 9000.00 | 0.00 | 108 | 100 | | | |
| 2 | 110 | John | Chen | Not available | 515.124.4269 | 1987-06-27 | FL_ACCOUNT | 8200.00 | 0.00 | 108 | 100 | | | |
| 3 | 111 | Ismael | Sciarra | Not available | 515.124.4369 | 1987-06-28 | FL_ACCOUNT | 7700.00 | 0.00 | 108 | 100 | | | |
| 4 | 112 | Jose Manuel | Urman | Not available | 515.124.4469 | 1987-06-29 | FL_ACCOUNT | 7800.00 | 0.00 | 108 | 100 | | | |
| 5 | 113 | Luis | Popp | Not available | 515.124.4567 | 1987-06-30 | FL_ACCOUNT | 6900.00 | 0.00 | 108 | 100 | | | |
| 6 | 206 | William | Gietz | Not available | 515.123.8181 | 1987-10-01 | AC_ACCOUNT | 9130.00 | 0.00 | 205 | 110 | | | |

QUESTION 5

Write a SQL statement to change the email column of employees table with 'not available' for those employees whose department_id is 80 and gets a commission is less than .20%.

```
197 SELECT * FROM employees
198 WHERE department_id =80;
199
```

Data Output Explain Messages Notifications

| | employee_id numeric (6) | first_name character varying (20) | last_name character varying (25) | email character varying (25) | phone_number character varying (20) | hire_date date | job_id character varying (10) | salary numeric (8,2) | commission_pct numeric (2,2) | manager_id numeric (6) | department_id numeric (4) |
|---|----------------------------|--------------------------------------|-------------------------------------|---------------------------------|--|-------------------|----------------------------------|-------------------------|---------------------------------|---------------------------|------------------------------|
| 1 | 145 | John | Russell | JRUSSEL | 011.44.1344.429268 | 1987-08-01 | SA_MAN | 14000.00 | 0.40 | 100 | 80 |
| 2 | 146 | Karen | Partners | KPARTNER | 011.44.1344.467268 | 1987-08-02 | SA_MAN | 13500.00 | 0.30 | 100 | 80 |
| 3 | 147 | Alberto | Errazuriz | AERRAZUR | 011.44.1344.429278 | 1987-08-03 | SA_MAN | 12000.00 | 0.30 | 100 | 80 |
| 4 | 148 | Gerald | Cambraut | GCAMBRAU | 011.44.1344.619268 | 1987-08-04 | SA_MAN | 11000.00 | 0.30 | 100 | 80 |
| 5 | 149 | Eleni | Zlotkey | EZLOTKEY | 011.44.1344.429018 | 1987-08-05 | SA_MAN | 10500.00 | 0.20 | 100 | 80 |
| 6 | 150 | Peter | Tucker | PTUCKER | 011.44.1344.129268 | 1987-08-06 | SA_REP | 10000.00 | 0.30 | 145 | 80 |
| 7 | 151 | David | Bernstein | DBERNSTE | 011.44.1344.345268 | 1987-08-07 | SA_REP | 9500.00 | 0.25 | 145 | 80 |
| 8 | 152 | Peter | Hall | PHALL | 011.44.1344.478968 | 1987-08-08 | SA_REP | 9000.00 | 0.25 | 145 | 80 |
| 9 | 153 | Christopher | Olsen | COLSEN | 011.44.1344.498718 | 1987-08-09 | SA_REP | 8000.00 | 0.20 | 145 | 80 |

OUTPUT

```
UPDATE employees |
SET email='not available'
WHERE department_id=80 AND commission_pct<.20;
```

Data Output Explain Messages Notifications

| | employee_id numeric (6) | first_name character varying (20) | last_name character varying (25) | email character varying (25) | phone_number character varying (20) | hire_date date | job_id character varying (10) | salary numeric (8,2) | commission_pct numeric (2,2) | manager_id numeric (6) | department_id numeric (4) |
|---|----------------------------|--------------------------------------|-------------------------------------|---------------------------------|--|-------------------|----------------------------------|-------------------------|---------------------------------|---------------------------|------------------------------|
| 1 | 155 | Oliver | Tuvault | not available | 011.44.1344.486508 | 1987-08-11 | SA_REP | 7000.00 | 0.15 | 145 | 80 |
| 2 | 163 | Danielle | Greene | not available | 011.44.1346.229268 | 1987-08-19 | SA_REP | 9500.00 | 0.15 | 147 | 80 |
| 3 | 164 | Mattea | Marvins | not available | 011.44.1346.329268 | 1987-08-20 | SA_REP | 7200.00 | 0.10 | 147 | 80 |
| 4 | 165 | David | Lee | not available | 011.44.1346.529268 | 1987-08-21 | SA_REP | 6800.00 | 0.10 | 147 | 80 |
| 5 | 166 | Sundar | Ande | not available | 011.44.1346.629268 | 1987-08-22 | SA_REP | 6400.00 | 0.10 | 147 | 80 |
| 6 | 167 | Amit | Banda | not available | 011.44.1346.729268 | 1987-08-23 | SA_REP | 6200.00 | 0.10 | 147 | 80 |
| 7 | 171 | William | Smith | not available | 011.44.1343.629268 | 1987-08-27 | SA_REP | 7400.00 | 0.15 | 148 | 80 |
| 8 | 172 | Elizabeth | Bates | not available | 011.44.1343.529268 | 1987-08-28 | SA_REP | 7300.00 | 0.15 | 148 | 80 |
| 9 | 173 | Sundita | Kumar | not available | 011.44.1343.329268 | 1987-08-29 | SA_REP | 6100.00 | 0.10 | 148 | 80 |

QUESTION 6

Write a SQL statement to change the email and commission_pct column of the employees table with 'not available' and 0.10 for all employees.

```
4 SELECT * FROM employees;
```

Data Output Explain Messages Notifications

| | employee_id numeric (6) | first_name character varying (20) | last_name character varying (25) | email character varying (25) | phone_number character varying (20) | hire_date date | job_id character varying (10) | salary numeric (8,2) | commission_pct numeric (2,2) | manager_id numeric (6) | department_id numeric (4) |
|---|----------------------------|--------------------------------------|-------------------------------------|---------------------------------|--|-------------------|----------------------------------|-------------------------|---------------------------------|---------------------------|------------------------------|
| 1 | 103 | Alexander | Hunold | AHUNOLD | 590.423.4567 | 1987-06-20 | IT_PROG | 9000.00 | 0.00 | 102 | 60 |
| 2 | 104 | Bruce | Ernst | BERNST | 590.423.4568 | 1987-06-21 | IT_PROG | 6000.00 | 0.00 | 103 | 60 |
| 3 | 106 | Valli | Pataballa | VPATABAL | 590.423.4560 | 1987-06-23 | IT_PROG | 4800.00 | 0.00 | 103 | 60 |
| 4 | 107 | Diana | Lorentz | DLORENTZ | 590.423.5567 | 1987-06-24 | IT_PROG | 4200.00 | 0.00 | 103 | 60 |
| 5 | 108 | Nancy | Greenberg | NGREENBE | 515.124.4569 | 1987-06-25 | FI_MGR | 12000.00 | 0.00 | 101 | 100 |
| 6 | 114 | Den | Raphaely | DRAPHEAL | 515.127.4561 | 1987-07-01 | PU_MAN | 11000.00 | 0.00 | 100 | 30 |
| 7 | 115 | Alexander | Khoo | AKHOO | 515.127.4562 | 1987-07-02 | PU_CLERK | 3100.00 | 0.00 | 114 | 30 |
| 8 | 116 | Shelli | Baida | SBAIDA | 515.127.4563 | 1987-07-03 | PU_CLERK | 2900.00 | 0.00 | 114 | 30 |
| 9 | 117 | Sigal | Tobias | STOBIAS | 515.127.4564 | 1987-07-04 | PU_CLERK | 2800.00 | 0.00 | 114 | 30 |

```
UPDATE employees SET email='not available',  
commission_pct=0.10;
```

Data Output Explain Messages Notifications

| | employee_id numeric (6) | first_name character varying (20) | last_name character varying (25) | email character varying (25) | phone_number character varying (20) | hire_date date | job_id character varying (10) | salary numeric (8,2) | commission_pct numeric (2,2) | manager_id numeric (6) | department_id numeric (4) |
|--|----------------------------|--------------------------------------|-------------------------------------|---------------------------------|--|-------------------|----------------------------------|-------------------------|---------------------------------|---------------------------|------------------------------|
| | 103 | Alexander | Hunold | not available | 590.423.4567 | 1987-06-20 | IT_PROG | 9000.00 | 0.10 | 102 | 60 |
| | 104 | Bruce | Ernst | not available | 590.423.4568 | 1987-06-21 | IT_PROG | 6000.00 | 0.10 | 103 | 60 |
| | 106 | Valli | Pataballa | not available | 590.423.4560 | 1987-06-23 | IT_PROG | 4800.00 | 0.10 | 103 | 60 |
| | 107 | Diana | Lorentz | not available | 590.423.5567 | 1987-06-24 | IT_PROG | 4200.00 | 0.10 | 103 | 60 |
| | 108 | Nancy | Greenberg | not available | 515.124.4569 | 1987-06-25 | FI_MGR | 12000.00 | 0.10 | 101 | 100 |
| | 114 | Den | Raphaely | not available | 515.127.4561 | 1987-07-01 | PU_MAN | 11000.00 | 0.10 | 100 | 30 |
| | 115 | Alexander | Khoo | not available | 515.127.4562 | 1987-07-02 | PU_CLERK | 3100.00 | 0.10 | 114 | 30 |
| | 116 | Shelli | Baida | not available | 515.127.4563 | 1987-07-03 | PU_CLERK | 2900.00 | 0.10 | 114 | 30 |
| | 177 | Jack | Livingston | not available | 011.44.1644.429264 | 1987-09-02 | SA_REP | 8400.00 | 0.10 | 149 | 80 |