* **Question 1**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Remember you need te SQL and the resulting output to get any marks.  Execute he following command  SET AUTOCOMMIT ON (do this each time you log on for this lab) so any updates, deletes and inserts are automatically committed before you exit from Oracle.  When done answer YES in the answer section |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | yes. | | Correct Answer: | Correct  YES should appear as the answer to doing it | | Response Feedback: | [None Given] | |  |  |  |

* **Question 2**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Make sure you exist as an employee with a NULL salary and 0.2 commission\_pct in department 90. Fill in the other fields as well  That requires an INSERT |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | INSERT INTO employees VALUES (207, 'Kazim', 'Akhlaqi', 'kakhlaqi', '647.740.9205', SYSDATE, 'IT\_Prog', NULL, 0.2, 100, 90); ----------------------------------------------------  0utput:  EMPLOYEE\_ID FIRST\_NAME  LAST\_NAME     EMAIL       PHONE\_NUMBER     HIRE\_DATE     JOB\_ID         SALARY COMMISSION\_PCT MANAGER\_ID DEPARTMENT\_ID  ----------- ----------- ------------- ----------- ---------------- ------------- ---------- ---------- -------------- ---------- -------------          207 Kazim       Akhlaqi       kakhlaqi    647.740.9205     11-OCT-18     IT\_Prog                           .2        100            90  55 rows selected. | | Correct Answer: | Correct  INSERT INTO EMPLOYEES    VALUES      (777,'Amal','Khandelwal','AKHANDELWAL','123.123.1234',         '31-DEC-99','IT\_PROG',NULL,.2,102,90); | | Response Feedback: | [None Given] | |  |  |  |

* **Question 3**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Change the salary of the both employees with a last name of Matos and Whalen to be 2500. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | UPDATE employees  SET         salary = 2500  WHERE  last\_name = 'Whalen'  OR          last\_name = 'Matos';  0utput:  EMPLOYEE\_ID FIRST\_NAME  LAST\_NAME     EMAIL       PHONE\_NUMBER     HIRE\_DATE     JOB\_ID         SALARY COMMISSION\_PCT MANAGER\_ID DEPARTMENT\_ID  ----------- ----------- ------------- ----------- ---------------- ------------- ---------- ---------- -------------- ---------- -------------         143  Randall     Matos         RMATOS      650.121.2874     15-MAR-98     ST\_CLERK         2500                       124            50         200 Jennifer     Whalen        JWHALEN     515.123.4444     17-SEP-87     0AD\_ASST          2500                       101            10 | | Correct Answer: | Correct  UPDATE EMPLOYEES    SET SALARY = 2500    WHERE LAST\_NAME = 'Matos' OR LAST\_NAME = 'Whalen'; | | Response Feedback: | [None Given] | |  |  |  |

* **Question 4**

Needs Grading

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|  |  | | | |
|  | YOU MUST USE SUBQUERIES for these questions.  (Must also minimize the number of tables when answering. Example don't use 10 tables when 3 will do)  Display the last names of all employees who are in the same department as the employee named who has a name called Abel. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT last\_name  FROM employees  WHERE department\_id = (SELECT DISTINCT(department\_id)                         FROM employees                         WHERE last\_name = 'Abel');  ----------------------------------------  Output:  LAST\_NAME  -------------------------  Zlotkey  Abel  Taylor  Flertjan  Grovlin  Smertal  Mustaine  Harvey  LeDuc  Bergsteige  Gruber  LAST\_NAME  -------------------------Sanchez  Chancevente  Torson  Cornel  Gibbons  Pallomine  Jacobs  Strandherst  Brigade  Litrand  Armarillo  LAST\_NAME  -------------------------  MotTurcotte  LeBlanc  Rodriguez  Young  Loo Nam  Chan  Wandiko  Gregson  Krain  Termede  LAST\_NAME  -------------------------  Testorok  Whiteduck  Montoya  36 rows selected. | | Correct Answer: | Correct  SELECT LAST\_NAME    FROM EMPLOYEES    WHERE DEPARTMENT\_ID =            (SELECT DEPARTMENT\_ID               FROM EMPLOYEES               WHERE UPPER(LAST\_NAME) = upper('Abel');  Should not word wrap ... but ok this time    LAST\_NAME  -------------------------  Zlotkey  Abel  Taylor  Flertjan  Grovlin  Smertal  Mustaine  Harvey  LeDuc  Bergsteige  Gruber  Sanchez  Chancevente  Torson  Cornel  Gibbons  Pallomine  Jacobs  Strandherst  Brigade  Litrand  Armarillo  Mot  Turcotte  LeBlanc  Rodriguez  Young  Loo Nam  Chan  Wandiko  Gregson  Krain  Termede  Testorok  Whiteduck  Montoya | | Response Feedback: | said 100 times .... set pagesize 200 | |  |  |  |

* **Question 5**

0.5 out of 0.05 points

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Display the last name then first name of the lowest paid employee(s) |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT last\_name,         first\_name  FROM   employees  WHERE salary = (SELECT MIN(salary)                  FROM employees);  ---------------------------------  Output:  LAST\_NAME                 FIRST\_NAME  ------------------------- --------------------  Matos                     Randall  Vargas                    Peter  Whalen                    Jennifer | | Correct Answer: | Correct  LAST\_NAME                 FIRST\_NAME  ------------------------- --------------------  Vargas                    Peter  SELECT LAST\_NAME    FROM EMPLOYEES    WHERE SALARY =            (SELECT MIN(SALARY)             FROM EMPLOYEES); | | Response Feedback: | [None Given] | |  |  |  |

* **Question 6**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Display the city that the lowest paid employee(s) are located in. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT l.city AS "City"  FROM locations l  JOIN departments d  ON l.location\_id = d.location\_id  JOIN employees e  ON d.department\_id = e.department\_id  WHERE e.salary = (SELECT MIN(salary)                    FROM employees);  ---------------------------------  Output:  City  ------------------------------  South San Francisco  South San Francisco  Seattle | | Correct Answer: | Correct  SELECT DISTICT CITY,    FROM LOCATIONS JOIN DEPARTMENTS USING (LOCATION\_ID) JOIN         EMPLOYEES USING (DEPARTMENT\_ID)    WHERE SALARY =            (SELECT MIN(SALARY) FROM EMPLOYEES);  CITY  ------------------------------  South San Francisco | | Response Feedback: | duplicate city | |  |  |  |

* **Question 7**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Display the last name and  first name of the lowest paid employee(s) in each department |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT last\_name,         first\_name  FROM   employees  WHERE (department\_id, salary) IN (SELECT department\_id,                                                                                      MIN(salary)                                    FROM employees                                    GROUP BY department\_id);  ---------------------------  Output:  LAST\_NAME                 FIRST\_NAME  ------------------------- --------------------  De Haan                   Lex  Kochhar                   Neena  Fay                       Pat  Gietz                     William  Vargas                    Peter  Matos                     Randall  LeDuc                     Henri  Lorentz                   Diana  Whalen                    Jennifer  9 rows selected. | | Correct Answer: | Correct  SELECT LAST\_NAME    FROM EMPLOYEES    WHERE SALARY IN     (SELECT MIN(SALARY) FROM EMPLOYEES GROUP BY DEPARTMENT\_ID);  This answer does not take into account an employee in another department that is not the minimum but matches the minimum.  Need to pass back 2 items from subquery  LAST\_NAME                 FIRST\_NAME  ------------------------- --------------------  Kochhar                   Neena  De Haan                   Lex  Ernst                     Bruce  Lorentz                   Diana  Vargas                    Peter  Grants                    Kimberely  de Man                    Spence  Whalen                    Jennifer  Fay                       Pat  Gietz                     William  LeDuc                     Henri     11 rows selected | | Response Feedback: | [None Given] | |  |  |  |

* **Question 8**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Display the last name of the lowest paid employee(s) in each city |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT e.last\_name AS "Last Name",         l.city AS "City"  FROM employees e  JOIN departments d   USING(department\_id)  JOIN locations l     USING(location\_id)  WHERE (salary, city) IN (SELECT MIN(e.salary),                                      l.city                           FROM employees e                           JOIN departments d                           ON e.department\_id = d.department\_id                           JOIN locations l                           ON d.location\_id = l.location\_id                           GROUP BY l.city)  ORDER BY "Last Name" ASC;  ---------------------------------------------------  Output:  Last Name                 City  ------------------------- ------------------------------  Fay                       Toronto  LeDuc                     Oxford  Lorentz                   Southlake  Matos                     South San Francisco  Vargas                    South San Francisco  Whalen                    Seattle  6 rows selected. | | Correct Answer: | Correct  SELECT LAST\_NAME    FROM EMPLOYEES    WHERE SALARY IN          (SELECT MIN(SALARY)             FROM LOCATIONS JOIN DEPARTMENTS USING (LOCATION\_ID)                  JOIN EMPLOYEES USING (DEPARTMENT\_ID)             GROUP BY CITY);  LAST\_NAME  -------------------------  Ernst  Lorentz  Vargas  Grants  de Man  Whalen  Fay  LeDuc | | Response Feedback: | [None Given] | |  |  |  |

* **Question 9**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Display last name and salary for all employees who earn less than the lowest salary in **ANY department**.  Sort the output by top salaries first and then by last name. |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT last\_name AS "Last Name",         salary AS "Salary"  FROM employees  WHERE salary < ANY (SELECT MIN(salary)                      FROM employees                      GROUP BY department\_id)  ORDER BY "Salary" DESC, "Last Name";  -----------------------------------  Output:  Last Name                     Salary  ------------------------- ----------  Hartstein                      13000  Chancevente                    12000  Higgins                        12000  Abel                           11000  Armarillo                      11000  Brigade                        11000  Chan                           11000  Cornel                         11000  Flertjan                       11000  Gibbons                        11000  Gregson                        11000  Last Name                     Salary  ------------------------- ----------  Grovlin                        11000  Jacobs                         11000  Krain                          11000  LeBlanc                        11000  Loo Nam                        11000  Montoya                        11000  Mot                            11000  Mustaine                       11000  Pallomine                      11000  Rodriguez                      11000  Sanchez                        11000  Last Name                     Salary  ------------------------- ----------  Smertal                        11000  Termede                        11000  Testorok                       11000  Torson                         11000  Turcotte                       11000  Wandiko                        11000  Whiteduck                      11000  Zlotkey                        10500  Harvey                         10000  Litrand                        10000  Young                          10000  Last Name                     Salary  ------------------------- ----------  Gruber                          9000  Hunold                          9000  Strandherst                     9000  Taylor                          8600  Gietz                           8300  Bergsteige                      8000  Grants                          7000  LeDuc                           7000  de Man                          7000  Ernst                           6000  Fay                             6000  Last Name                     Salary  ------------------------- ----------  Mourgos                         5800  Lorentz                         4200  Rajs                            3500  Davies                          3100  Matos                           2500  Vargas                          2500  Whalen                          2500  51 rows selected. | | Correct Answer: | Correct  SELECT last\_name, salary  FROM employees  WHERE salary < ANY (    SELECT MIN(salary)    FROM employees    GROUP BY department\_id    )  ORDER BY salary DESC, last\_name;    LAST\_NAME                     SALARY  ------------------------- ----------  Hartstein                      13000  Chancevente                    12000  Higgins                        12000  Abel                           11000  Armarillo                      11000  Brigade                        11000  Chan                           11000  Cornel                         11000  Flertjan                       11000  Gibbons                        11000  Gregson                        11000  Grovlin                        11000  Jacobs                         11000  Krain                          11000  LeBlanc                        11000  Loo Nam                        11000  Montoya                        11000  Mot                            11000  Mustaine                       11000  Pallomine                      11000  Rodriguez                      11000  Sanchez                        11000  Smertal                        11000  Termede                        11000  Testorok                       11000  Torson                         11000  Turcotte                       11000  Wandiko                        11000  Whiteduck                      11000  Zlotkey                        10500  Harvey                         10000  Litrand                        10000  Young                          10000  Gruber                          9000  Hunold                          9000  Strandherst                     9000  Taylor                          8600  Gietz                           8300  Bergsteige                      8000  Grants                          7000  LeDuc                           7000  de Man                          7000  Ernst                           6000  Fay                             6000  Mourgos                         5800  Whalen                          4400  Lorentz                         4200  Rajs                            3500  Davies                          3100  Matos                           2600  Vargas                          2500     51 rows selected | | Response Feedback: | [None Given] | |  |  |  |

* **Question 10**

Needs Grading

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | | | |
|  | Display last name, job title and salary for all employees whose salary matches any of the salaries from the IT Department.  Do NOT use Join method.  Sort the output by salary ascending first and then by last\_name |  |  |  |
| |  |  | | --- | --- | | Selected Answer: | SELECT last\_name AS "Last Name",         job\_id    AS "Job Title",         salary    AS "Salary"  FROM   employees  WHERE  salary = ANY (SELECT  salary                       FROM    employees                       WHERE   department\_id = 60)  ORDER BY "Salary" ASC, "Last Name";  -------------------------------------  Output:  Last Name                 Job Title      Salary  ------------------------- ---------- ----------  Lorentz                   IT\_PROG          4200  Ernst                     IT\_PROG          6000  Fay                       MK\_REP           6000  Gruber                    SA\_REP           9000  Hunold                    IT\_PROG          9000  Strandherst               SA\_REP           9000  6 rows selected. | | Correct Answer: | Correct  SELECT last\_name, job\_id, salary  FROM employees  WHERE salary = ANY (    SELECT salary    FROM employees    WHERE job\_id = 'IT\_PROG'    )  ORDER BY salary, last\_name;  LAST\_NAME                 JOB\_ID         SALARY  ------------------------- ---------- ----------  Lorentz                   IT\_PROG          4200  Ernst                     IT\_PROG          6000  Fay                       MK\_REP           6000  Gruber                    SA\_REP           9000  Hunold                    IT\_PROG          9000  Strandherst               SA\_REP           9000     6 rows selected | | Response Feedback: | [None Given] | |  |  |  |