*SQL Assignment*

# Seosamh Ó Cinnéide

## Request 1:

--List the last name, first name and employee number of all programmers who were hired on or before 21 May 1991 in ascending order of last name.

Expected Result:

|  |  |  |
| --- | --- | --- |
| Last\_Name | First\_Name | Employee\_No |
| A… | aFirstName | anEmployeeNo |
| Etc. | Etc. | Etc. |

Query:

SELECT Last\_Name, First\_Name, Employee\_No FROM Employees WHERE Job\_ID = (SELECT Job\_ID FROM Jobs WHERE Job\_Title = 'programmer') AND Hire\_Date <= '1991/05/21' ORDER BY Last\_Name ASC

Actual Result:

|  |  |  |
| --- | --- | --- |
| Last\_Name | First\_Name | Employee\_No |
| Acreman | Lucy | 172 |
| Court | Peter | 155 |
| Hadlow | Nelson | 133 |
| Monroe | Justin | 174 |
| Repetto | Joanna | 166 |

## Request 2:

--List the department number, last name and salary of all employees who were hired between 16/09/87 and 12/05/96 sorted in ascending order of last name within department number.

Expected Result:

|  |  |  |
| --- | --- | --- |
| Department\_No | Last\_Name | Annual\_Salary |
| LowestDeptNo | A… | anAnnualSalary |
| Etc. | Etc. | Etc. |

Query:

SELECT Department\_No, Last\_Name, Annual\_Salary FROM Employees WHERE Hire\_Date BETWEEN '1987/09/16' AND '1996/05/12' ORDER BY Department\_No, Last\_Name

Actual Result:

|  |  |  |
| --- | --- | --- |
| Department\_No | Last\_Name | Annual\_Salary |
| 10 | Flowers | 10500 |
| 10 | Powers | 10900 |
| 10 | Sharma | 9500 |
| 20 | Merton | 25000 |
| 20 | Wise | 14200 |
| 30 | Christy | 7500 |
| 30 | Clifford | 20000 |
| 30 | Wilkins | 23000 |
| 50 | Acreman | 18000 |
| 50 | Court | 17950 |
| 50 | Hadlow | 16500 |
| 50 | Mace | 22000 |
| 50 | Monroe | 17500 |
| 50 | Repetto | 16000 |
| 50 | Trotter | 18000 |
| 50 | Williams | 45000 |
| 60 | Avery | 9000 |
| 60 | Barnes | 9800 |
| 60 | Davis | 9000 |
| 60 | Hart | 12000 |
| 60 | Miles | 10000 |
| 60 | Reismaster | 10500 |
| 70 | Laslo | 11800 |
| 80 | Holland | 8500 |
| 80 | Lambert | 10200 |
| 90 | Marsh | 150000 |
| 90 | Molavi | 45000 |
| 110 | Klein | 14200 |
| 110 | Rogers | 15000 |
| 190 | Elliott | 9800 |
| 190 | Goodwin | 10000 |
| 190 | Lugini | 7800 |
| 190 | Macffrey | 9800 |
| 190 | Watson | 10000 |

## Request 3:

--List all the data for all jobs where the maximum salary is greater than 15000 sorted in decending order of maximum salary.

Expected Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Job\_ID | Job\_Title | Min\_Salary | Max\_Salary |
| aJobID | aJobTitle | aMinSalry | HighestMaxSalary |
| Etc. | Etc. | Etc. | Etc. |

Query:

SELECT \* FROM Jobs WHERE Max\_Salary > 15000 ORDER BY Max\_Salary DESC

Actual Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Job\_ID | Job\_Title | Min\_Salary | Max\_Salary |
| CO\_CHAIR | Company Chairman | 100000 | 200000 |
| CO\_DIR | Company Director | 30000 | 100000 |
| IT\_MGR | IT Manager | 40000 | 60000 |
| HR\_MGR | Human Resources Manager | 30000 | 50000 |
| AD\_MGR | Administration Manager | 20000 | 30000 |
| IT\_PROG | Programmer | 15000 | 25000 |
| FN\_MGR | Finance Manager | 13000 | 25000 |
| AC\_ACCOUNT | Accountant | 8500 | 25000 |
| AC\_MGR | Accounts Manager | 10000 | 25000 |
| SH\_MGR | Shipping Manager | 20000 | 25000 |
| SA\_MGR | Sales Manager | 10000 | 20000 |
| MK\_MGR | Marketing Manager | 10500 | 17500 |

## Request 4:

--List the last name, first name, job id and commission of employees who earn commission sorted in ascending order of first name within last name.

Expected Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Last\_Name | First\_Name | Job\_ID | Commission\_Percent |
| Avery | William | SA\_REP | 0.2 |
| Etc. | Etc. | Etc. | Etc. |

Query:

SELECT Last\_Name, First\_Name, Job\_ID, Commission\_Percent FROM Employees WHERE Commission\_Percent IS NOT NULL ORDER BY Last\_Name, First\_Name

Actual Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Last\_Name | First\_Name | Job\_ID | Commission\_Percent |
| Avery | William | SA\_REP | 0.2 |
| Barnes | Gillian | SA\_REP | 0.25 |
| Berry | Jayne | SA\_REP | 0.3 |
| Bitton | Joshua | SA\_REP | 0.15 |
| Caprice | Michelle | SA\_REP | 0.1 |
| Connor | Patrick | SA\_REP | 0.2 |
| Davis | Adrian | SA\_REP | 0.2 |
| Davis | Graeme | SA\_REP | 0.25 |
| French | Natalie | SA\_REP | 0.15 |
| Hart | Tracey | SA\_REP | 0.3 |
| Hartmore | Wayne | SA\_MGR | 0.35 |
| Miles | Everton | SA\_REP | 0.2 |
| Miles | James | SA\_REP | 0.25 |
| Neilson | Joanna | SA\_REP | 0.1 |
| Nolan | Ben | SA\_REP | 0.2 |
| Pench | John | SA\_REP | 0.15 |
| Reismaster | Janet | SA\_REP | 0.25 |
| Weston | Colin | SA\_REP | 0.3 |
| Wilmott | Jennifer | SA\_REP | 0.25 |

## Request 5:

--Which jobs are found in the IT and Sales departments?

Expected Result:

|  |
| --- |
| Job\_Title |
| aJobTitle |
| Etc. |

Query:

SELECT DISTINCT Job\_Title FROM Jobs WHERE Job\_ID IN (SELECT Job\_ID FROM Employees WHERE Department\_No IN (SELECT Department\_No FROM Departments WHERE Department\_Name IN ('IT', 'Sales')))

Actual Result:

|  |
| --- |
| Job\_Title |
| IT Manager |
| Programmer |
| Sales Manager |
| Sales Representative |

## Request 6:

--List the last name of all employees in departments 50 and 90 together with their monthly salaries (rounded to 2 decimal places), sorted in ascending order of last name.

Expected Result:

|  |  |
| --- | --- |
| Last\_Name | Monthly Salary |
| A… | aMonthlySalary |
| Etc. | Etc. |

Query:

SELECT Last\_Name, CAST(ROUND(Annual\_Salary/12,2) AS DECIMAL(10,2)) AS 'Monthly Salary' FROM Employees ORDER BY Last\_Name ASC

Actual Result:

|  |  |
| --- | --- |
| Last\_Name | Monthly Salary |
| Acreman | 1500 |
| Betteridge | 1458.33 |
| Bown | 1583.33 |
| Court | 1495.83 |
| Dambridge | 4166.67 |
| Hadlow | 1375 |
| Mace | 1833.33 |
| Marsh | 12500 |
| Martinez | 1333.33 |
| Matthews | 2000 |
| Molavi | 3750 |
| Monroe | 1458.33 |
| Repetto | 1333.33 |
| Tetbury | 1750 |
| Trotter | 1500 |
| Watts | 1833.33 |
| Williams | 3750 |

## Request 7:

--Show the total salaries figure for one month displayed with no decimal places

Expected Result:

|  |
| --- |
| Total Monthly Salary |
| TheTotalMonthlySalary |

Query:

SELECT CAST(SUM(Annual\_Salary)/12 AS INTEGER) AS 'Total Monthly Salary' FROM Employees

Actual Result:

|  |
| --- |
| Total Monthly Salary |
| 96970 |

## Request 8:

--Show the total number of employees.

Expected Result:

|  |
| --- |
| Total Number of employees |
| The total |

Query:

SELECT COUNT(\*) AS 'Total Number of employees' FROM Employees

Actual Result:

|  |
| --- |
| Total Number of employees |
| 71 |

## Request 9:

--List the department number, department name and the number of employees for each department that has more than 2 employees grouping by department number and department name.

Expected Result:

|  |  |  |
| --- | --- | --- |
| Department\_No | Department\_Name | Number Of Employees |
| DepartmentNo | DepartmentName | Number Of Employees |
| Etc. | Etc. | Etc. |

Query:

SELECT Departments.Department\_No, Department\_Name, COUNT(Employee\_No) AS 'Number Of Employees' FROM Departments JOIN Employees ON (Departments.Department\_No=Employees.Department\_No) GROUP BY Departments.Department\_No, Department\_Name HAVING COUNT(Employee\_No)>2

Actual Result:

|  |  |  |
| --- | --- | --- |
| Department\_No | Department\_Name | Number Of Employees |
| 10 | Marketing | 5 |
| 20 | Administration | 3 |
| 30 | Accounting | 5 |
| 50 | IT | 14 |
| 60 | Sales | 19 |
| 80 | Finance | 3 |
| 90 | Management | 3 |
| 110 | Human Resources | 4 |
| 190 | Manufacturing | 13 |

## Request 10:

--List the department number, department name and the number of employees for the department that has the highest number of employees using appropriate grouping

Expected Result:

|  |  |  |
| --- | --- | --- |
| Department\_No | Department\_Name | Number Of Employees |
| DepartmentNo | DepartmentName | Highest Number Of Employees |

Query:

SELECT TOP 1 Departments.Department\_No, Department\_Name, COUNT(Employee\_No) AS 'Number Of Employees' FROM Departments JOIN Employees ON (Departments.Department\_No=Employees.Department\_No)

GROUP BY Departments.Department\_No, Department\_Name HAVING COUNT(Employee\_No)>2 ORDER BY [Number Of Employees] DESC

Actual Result:

|  |  |  |
| --- | --- | --- |
| Department\_No | Department\_Name | Number Of Employees |
| 60 | Sales | 19 |

## Request 11:

--List the department number and name for all departments where no programmers work.

Expected Result:

|  |  |
| --- | --- |
| Department\_No | Department\_Name |
| Department\_No | Department\_Name |
| Etc. | Etc. |

Query:

SELECT Department\_No, Department\_Name FROM Departments WHERE Department\_No NOT IN (SELECT Department\_No FROM Employees WHERE Job\_ID = (SELECT Job\_ID FROM Jobs WHERE Job\_Title = 'programmer'))

Actual Result:

|  |  |
| --- | --- |
| Department\_No | Department\_Name |
| 10 | Marketing |
| 20 | Administration |
| 30 | Accounting |
| 60 | Sales |
| 70 | Shipping |
| 80 | Finance |
| 90 | Management |
| 110 | Human Resources |
| 190 | Manufacturing |

## Request 12:

--Add the following new job IT\_ANAL, System Analyst, 10000, 15000

Expected Result:

The following will be added to the Jobs table

|  |  |  |  |
| --- | --- | --- | --- |
| Job\_ID | Job\_Title | Min\_Salary | Max\_Salary |
| IT\_ANAL | System Analyst | 10000 | 15000 |

Query:

INSERT INTO Jobs VALUES('IT\_ANAL', 'System Analyst', 10000, 15000)

Actual Result:

The following was added to the Jobs table

|  |  |  |  |
| --- | --- | --- | --- |
| Job\_ID | Job\_Title | Min\_Salary | Max\_Salary |
| IT\_ANAL | System Analyst | 10000 | 15000 |

## Request 13:

--Update all the maximum salaries for jobs with an increase of 1000.

Expected Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Before: | Max\_Salary | After: | Max\_Salary |
|  | Max\_Salary |  | Max\_Salary+1000 |
|  | Etc. |  | Etc. |

Query:

UPDATE Jobs SET Max\_Salary += 1000;

Actual Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Before: | Max\_Salary | After: | Max\_Salary |
|  | 25000 |  | 26000 |
|  | 11500 |  | 12500 |
|  | 25000 |  | 26000 |
|  | 15000 |  | 16000 |
|  | 12000 |  | 13000 |
|  | 30000 |  | 31000 |
|  | 200000 |  | 201000 |
|  | 100000 |  | 101000 |
|  | 11000 |  | 12000 |
|  | 25000 |  | 26000 |
|  | 15000 |  | 16000 |
|  | 50000 |  | 51000 |
|  | 15000 |  | 16000 |
|  | 60000 |  | 61000 |
|  | 25000 |  | 26000 |
|  | 17500 |  | 18500 |
|  | 11000 |  | 12000 |
|  | 8000 |  | 9000 |
|  | 15000 |  | 16000 |
|  | 20000 |  | 21000 |
|  | 13000 |  | 14000 |
|  | 12500 |  | 13500 |
|  | 25000 |  | 26000 |
|  | 10500 |  | 11500 |
|  | 12000 |  | 13000 |

## Request 14:

--List all the data for jobs sorted in ascending order of job id.

Expected Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Job\_ID | Job\_Title | Min\_Salary | Max\_Salary |
| AC\_ACCOUNT | Accountant | 8500 | 26000 |
| Etc. | Etc. | Etc. | Etc. |

Query:

SELECT \* FROM Jobs ORDER BY Job\_ID ASC

Actual Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Job\_ID | Job\_Title | Min\_Salary | Max\_Salary |
| AC\_ACCOUNT | Accountant | 8500 | 26000 |
| AC\_CLERK | Accounts Clerk | 5000 | 12500 |
| AC\_MGR | Accounts Manager | 10000 | 26000 |
| AD\_ASST | Administration Assistant | 4500 | 16000 |
| AD\_CLERK | Administration Clerk | 4500 | 13000 |
| AD\_MGR | Administration Manager | 20000 | 31000 |
| CO\_CHAIR | Company Chairman | 100000 | 201000 |
| CO\_DIR | Company Director | 30000 | 101000 |
| FN\_CLERK | Finance Clerk | 6000 | 12000 |
| FN\_MGR | Finance Manager | 13000 | 26000 |
| HR\_CLERK | Human Resources Clerk | 10000 | 16000 |
| HR\_MGR | Human Resources Manager | 30000 | 51000 |
| IT\_ANAL | System Analyst | 10000 | 16000 |
| IT\_MGR | IT Manager | 40000 | 61000 |
| IT\_PROG | Programmer | 15000 | 26000 |
| MK\_MGR | Marketing Manager | 10500 | 18500 |
| MK\_REP | Marketing Representative | 4490 | 12000 |
| PC\_CLERK | Purchase Clerk | 4000 | 9000 |
| PC\_MGR | Purchase Manager | 4600 | 16000 |
| SA\_MGR | Sales Manager | 10000 | 21000 |
| SA\_REP | Sales Representative | 4000 | 14000 |
| SH\_CLERK | Shipping Clerk | 8000 | 13500 |
| SH\_MGR | Shipping Manager | 20000 | 26000 |
| ST\_CLERK | Stock Clerk | 4400 | 11500 |
| ST\_MGR | Stock Manager | 6900 | 13000 |

## Request 15:

--a) The job history for employee number 102 is no longer required. Delete this record

--b) List all the data for job history sorted in ascending order of employee number.

Expected Result:

Job History for employee number 102 will be deleted and the following result will be shown

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Employee\_No | Start\_Date | End\_Date | Job\_ID | Department\_No |
| Employee\_No | Start\_Date | End\_Date | Job\_ID | Department\_No |
| Etc. | Etc. | Etc. | Etc. | Etc. |

Query:

DELETE FROM Job\_History WHERE Employee\_No = 102;

SELECT \* FROM Job\_History ORDER BY Employee\_No ASC

Actual Result:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Employee\_No | Start\_Date | End\_Date | Job\_ID | Department\_No |
| 100 | 16/11/1999 00:00:00 | 20/09/2000 00:00:00 | MK\_REP | 10 |
| 107 | 13/03/1993 00:00:00 | 29/01/1999 00:00:00 | IT-PROG | 50 |
| 110 | 12/05/1996 00:00:00 | 06/12/1998 00:00:00 | FN\_CLERK | 80 |
| 122 | 10/11/1986 00:00:00 | 31/07/1989 00:00:00 | HR\_CLERK | 110 |
| 125 | 19/02/1986 00:00:00 | 12/05/1998 00:00:00 | FN\_CLERK | 80 |
| 130 | 01/03/1988 00:00:00 | 04/12/1996 00:00:00 | FN\_MGR | 80 |
| 130 | 04/12/1996 00:00:00 | 23/06/1999 00:00:00 | CO\_DIR | 90 |
| 150 | 16/03/1998 00:00:00 | 25/01/1998 00:00:00 | SA\_REP | 60 |
| 160 | 01/01/1986 00:00:00 | 25/03/1993 00:00:00 | ST\_CLERK | 190 |
| 200 | 16/09/1987 00:00:00 | 29/10/1996 00:00:00 | AD\_CLERK | 20 |
| 200 | 29/10/1996 00:00:00 | 12/04/1999 00:00:00 | AD\_ASST | 20 |
| 250 | 02/12/1985 00:00:00 | 29/01/1990 00:00:00 | SH\_CLERK | 70 |

## Request 16:

--Produce a list of employees showing percentage raises, employee numbers and old and new salaries.

--Employees in departments 20 and 10 are given a 5% rise,

--employees in departments 50, 80, 90 and 110 are given a 10% rise and employees in other departments are not given a rise.

Expected Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Percentage Raise | Employee\_No | Old Salary | New Salary |
| Percentage Raise | Employee\_No | Old Salary | New Salary |
| Etc. | Etc. | Etc. | Etc. |

Query:

SELECT

CASE WHEN Department\_No IN (20, 10) THEN '5%' WHEN Department\_No IN (50, 80, 90 , 110) THEN '10%' ELSE NULL END AS 'Percentage Raise',

Employee\_No,

Annual\_Salary AS 'Old Salary',

CASE WHEN Department\_No IN (20, 10) THEN CAST(Annual\_Salary\*1.05 AS decimal(10,2)) WHEN Department\_No IN (50, 80, 90 , 110) THEN CAST(Annual\_Salary\*1.1 AS decimal(10,2)) ELSE Annual\_Salary END AS 'New Salary'

FROM Employees

Actual Result:

|  |  |  |  |
| --- | --- | --- | --- |
| Percentage Raise | Employee\_No | Old Salary | New Salary |
| 5% | 100 | 17000 | 17850 |
| 10% | 102 | 45000 | 49500 |
| 10% | 107 | 45000 | 49500 |
| NULL | 110 | 20000 | 20000 |
| 5% | 112 | 8000 | 8400 |
| NULL | 115 | 7250 | 7250 |
| NULL | 119 | 10000 | 10000 |
| NULL | 120 | 10750 | 10750 |
| 10% | 122 | 35000 | 38500 |
| NULL | 123 | 9000 | 9000 |
| 10% | 125 | 24500 | 26950 |
| NULL | 126 | 8200 | 8200 |
| 10% | 130 | 150000 | 165000 |
| NULL | 131 | 8000 | 8000 |
| NULL | 132 | 8200 | 8200 |
| 10% | 133 | 16500 | 18150 |
| NULL | 135 | 7800 | 7800 |
| NULL | 138 | 9500 | 9500 |
| NULL | 139 | 7500 | 7500 |
| NULL | 141 | 8000 | 8000 |
| NULL | 142 | 7000 | 7000 |
| NULL | 143 | 8400 | 8400 |
| NULL | 145 | 10200 | 10200 |
| NULL | 146 | 9100 | 9100 |
| NULL | 147 | 12000 | 12000 |
| NULL | 148 | 11500 | 11500 |
| 10% | 149 | 22000 | 24200 |
| NULL | 150 | 10000 | 10000 |
| NULL | 152 | 9500 | 9500 |
| NULL | 154 | 8900 | 8900 |
| 10% | 155 | 17950 | 19745 |
| NULL | 156 | 8100 | 8100 |
| 10% | 159 | 18000 | 19800 |
| NULL | 160 | 11000 | 11000 |
| 10% | 166 | 16000 | 17600 |
| NULL | 169 | 7100 | 7100 |
| 10% | 170 | 24000 | 26400 |
| 10% | 172 | 18000 | 19800 |
| 10% | 174 | 17500 | 19250 |
| 10% | 175 | 16000 | 17600 |
| 10% | 177 | 17500 | 19250 |
| 10% | 179 | 50000 | 55000 |
| 5% | 180 | 6500 | 6825 |
| NULL | 182 | 23000 | 23000 |
| NULL | 185 | 9500 | 9500 |
| NULL | 195 | 6500 | 6500 |
| 5% | 196 | 9500 | 9975 |
| 10% | 198 | 14990 | 16489 |
| 5% | 200 | 25000 | 26250 |
| 5% | 202 | 14200 | 14910 |
| 10% | 204 | 10200 | 11220 |
| NULL | 205 | 7500 | 7500 |
| NULL | 206 | 11800 | 11800 |
| NULL | 208 | 10000 | 10000 |
| NULL | 210 | 9800 | 9800 |
| NULL | 212 | 10000 | 10000 |
| 10% | 214 | 22000 | 24200 |
| 10% | 220 | 21000 | 23100 |
| 10% | 222 | 19000 | 20900 |
| NULL | 224 | 13000 | 13000 |
| NULL | 236 | 9000 | 9000 |
| NULL | 240 | 9800 | 9800 |
| NULL | 245 | 9800 | 9800 |
| NULL | 246 | 10500 | 10500 |
| NULL | 250 | 25000 | 25000 |
| NULL | 255 | 12000 | 12000 |
| 5% | 260 | 10500 | 11025 |
| 10% | 266 | 15000 | 16500 |
| 10% | 267 | 14200 | 15620 |
| 10% | 274 | 8500 | 9350 |
| 5% | 275 | 10900 | 11445 |

## Request 17:

--Create a new view for manager's details only using all the fields from the employee table. Apply a CHECK constraint.

Expected Result:

A view called Managers containing the managers’ details from the employee table with a check constraint will be created.

Query:

CREATE VIEW Managers AS SELECT \* FROM Employees WHERE Job\_ID LIKE '%MGR' WITH CHECK OPTION

Actual Result:

A view called Managers containing the managers’ details from the employee table with a check constraint was created.

## Request 18:

--Show all the fields and all the managers using the view for managers sorted in ascending order of employee number.

Expected Result:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Employee\_No | First\_Name | Last\_Name | Email | Phone\_Number | Hire\_Date | Job\_ID | Annual\_Salary | Commission\_Percent | Manager\_ID | Department\_No |
| Employee\_No | First\_Name | Last\_Name | Email | Phone\_Number | Hire\_Date | Job\_ID | Annual\_Salary | Commission\_Percent | Manager\_ID | Department\_No |
| Etc. | Etc. | Etc. | Etc. | Etc. | Etc. | Etc. | Etc. | Etc. | Etc. | Etc. |

Query:

SELECT \* FROM Managers ORDER BY Employee\_No ASC

Actual Result:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Employee\_No | First\_Name | Last\_Name | Email | Phone\_Number | Hire\_Date | Job\_ID | Annual\_Salary | Commission\_Percent | Manager\_ID | Department\_No |
| 100 | David | Polanski | DPOLANSKI | 555 324 190 | 16/11/1999 00:00:00 | MK\_MGR | 17000 | NULL | 100 | 10 |
| 107 | Megan | Williams | MWILLIAMS | 111 987 245 | 13/03/1993 00:00:00 | IT\_MGR | 45000 | NULL | 107 | 50 |
| 110 | William | Clifford | WCLIFFORD | 222 456 666 | 12/05/1996 00:00:00 | AC\_MGR | 20000 | NULL | 110 | 30 |
| 122 | Julie | Whittaker | JWHITTAKER | 532 555 160 | 10/11/1986 00:00:00 | HR\_MGR | 35000 | NULL | 122 | 110 |
| 125 | Linda | Yorke | LYORKE | 888 666 111 | 19/02/1986 00:00:00 | FN\_MGR | 24500 | NULL | 125 | 80 |
| 150 | Wayne | Hartmore | WHARTMORE | 444 232 135 | 16/03/1998 00:00:00 | SA\_MGR | 10000 | 0.35 | 150 | 60 |
| 160 | Trevor | Mills | TMILLS | 345 222 255 | 01/01/1986 00:00:00 | ST\_MGR | 11000 | NULL | 160 | 190 |
| 200 | Loraine | Merton | LMERTON | 665 239 989 | 16/09/1987 00:00:00 | AD\_MGR | 25000 | NULL | 200 | 20 |
| 250 | Tony | Luigi | TLUIGI | 333 111 120 | 02/12/1985 00:00:00 | SH\_MGR | 25000 | NULL | 250 | 70 |

## Request 19:

--Grant the authority to all other users to access the view for managers for SELECT statments only.

Expected Result:

All users will be able to use SELECT statements on the view for managers

Query:

GRANT SELECT ON Managers TO PUBLIC

Actual Result:

All users are able to use SELECT statements on the view for managers

## Request 20:

--Create an index named LOC\_POSTAL\_CODE on the Postal Code in the locations table. Provide a printout showing that the index has been created.

Expected Result:

An index will be created called LOC\_POSTAL\_CODE in the locations table.

Query:

CREATE INDEX LOC\_POSTAL\_CODE ON Locations (Postal\_Code)

Actual Result:

