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| **Topic** | Oracle SQL Language Fundamentals I |
| **Document Name** | SQL03-EX-01-05 |
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## Exercise SQL03-EX-01:

**Definiton :** Write followig SQL queries:

* Add a colum to employees table named MAX\_SALARY.
* Update MAX\_SALARY with maximum salary amount with subquery.
* Delete employee who have minimum salary using subquery.

**SQL:**

A screenshot of a computer program

Description automatically generated

**Screenshot:**

A white background with black lines

Description automatically generated

## Exercise SQL03-EX-02:

**Definiton :** Write followig SQL queries:

* Define index (named DPR\_NAME\_IDX) on DEPARTMENT\_NAME column of DEPARTMENTS table.
* Define constraint (named CNSTR\_SALARY) on employee salary. (Salary must be between 1000$ and 100.000$)
* Drop defined index.
* Enable, disable, drop defined constraint.

**SQL:**

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Description automatically generated

**Screenshot:**

A screenshot of a computer

Description automatically generated

## Exercise SQL03-EX-03:

**Definiton :** Create a table from EMPLOYEES with distinct department\_id column. Add department\_name to that table. With DEPARTMENTS table, update department\_name for included department\_ids and insert department\_id and department\_name values for not included rows. Use MERGE keyword.

**SQL:**

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Description automatically generated

**Screenshot:**

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## Exercise SQL03-EX-04:

**Definiton :** Using **WITH** keyword, do following jobs:

* Firstly select first\_name, last\_name, job\_id, department\_id from employees table whoes job\_id starts with ‘S’.
* Additionally select job\_title and min-max salary amount.
* Add department\_name to that query.
* Lastly concat first\_name and last\_name with space as full\_name alias and list with other selected columns.

**SQL:**

A computer code with text

Description automatically generated with medium confidence

**Screenshot:**

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## Exercise SQL03-EX-05:

**Definiton :** Search for COMMIT and ROLLBACK keywords and explain them.

COMMIT and ROLLBACK are two keywords which can be performed on a transaction, a transaction is a sequence of actions done to the database it can be one or more queries, commiting changes applies the actions we have taken to the databease while Rolling back is like the undo button of commits it helps us undo a commit in case we have made any mistakes or are encountering an unexpected behavior.