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Introduction

Lesson Objectives

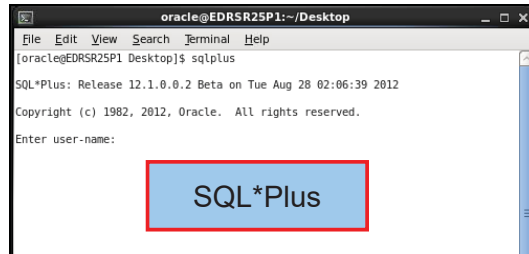
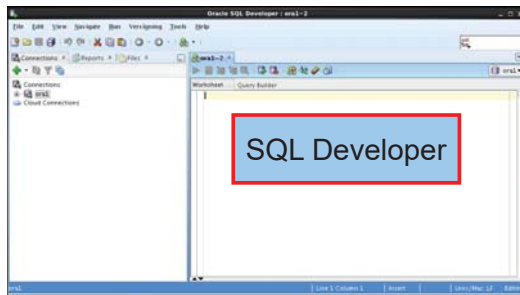
After completing this lesson, you should be able to:

- Discuss the goals of the course
- Describe the database schema and tables that are used in the course
- Identify the available environments that can be used in the course
- Review some of the basic concepts of SQL

Oracle DB Development Environments

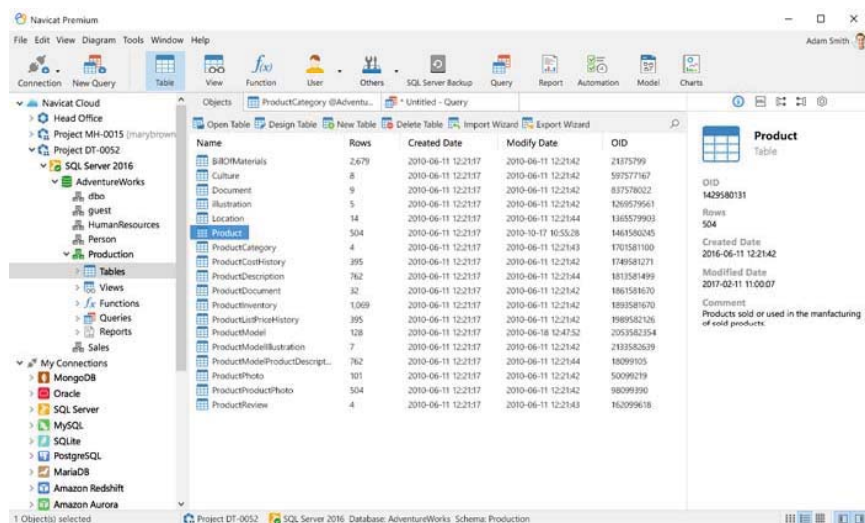
There are two development environments for Oracle Database:

- Oracle SQL Developer.
- SQL*Plus command-line interface.



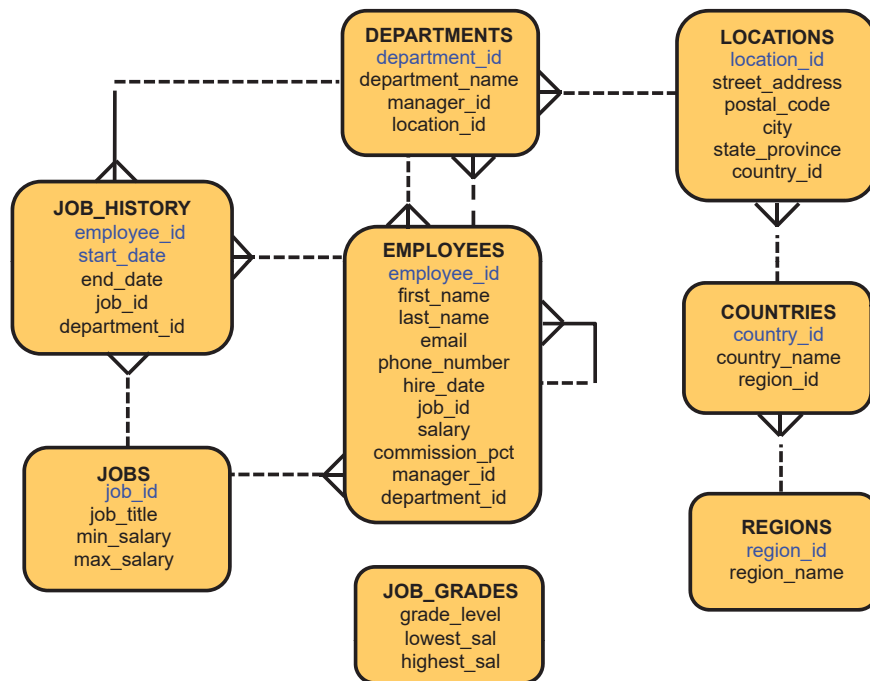
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Development Environments



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Tables Used in This Course



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Review of SELECT Statement

```
SELECT *|{[DISTINCT] column [alias],...}  
FROM table;
```

- SELECT identifies the columns to be displayed.
- FROM identifies the table containing those columns.

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Review of Restricting Data

- Restrict the rows that are returned by using the `WHERE` clause.
- Use comparison conditions to compare one expression with another value or expression.

Operator	Meaning
BETWEEN ...AND...	Between two values (inclusive)
IN(set)	Match any of a list of values
LIKE	Match a character pattern

- Use logical conditions to combine the result of two component conditions and produce a single result based on those conditions.

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Review of Sorting Data

- Sort retrieved rows with the `ORDER BY` clause:
 - `ASC`: Ascending order, default
 - `DESC`: Descending order
- The `ORDER BY` clause comes last in the `SELECT` statement:

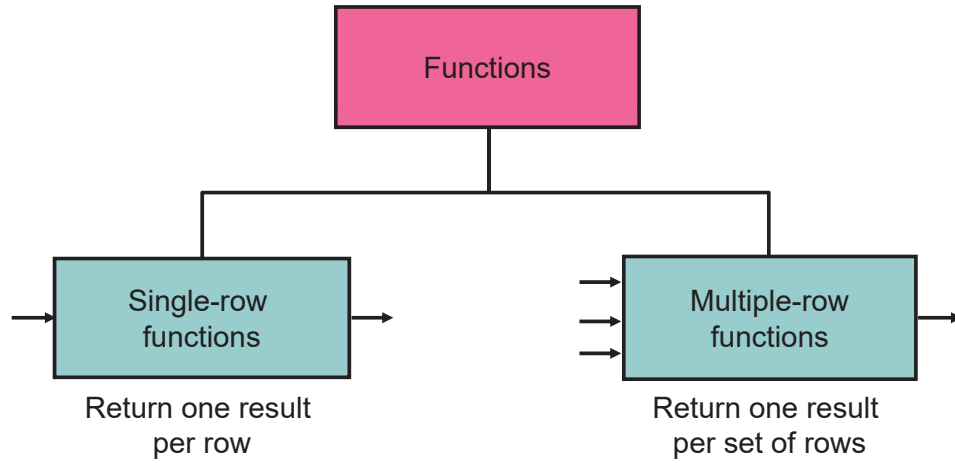
```
SELECT last_name, job_id, department_id, hire_date
FROM employees
ORDER BY hire_date ;
```

	LAST_NAME	JOB_ID	DEPARTMENT_ID	HIRE_DATE
1	De Haan	AD_VP		90 13-JAN-01
2	Gietz	AC_ACCOUNT		110 07-JUN-02
3	Baer	PR_REP		70 07-JUN-02
4	Mavris	HR_REP		40 07-JUN-02
5	Higgins	AC_MGR		110 07-JUN-02
6	Faviet	FI_ACCOUNT		100 16-AUG-02
7	Greenberg	FI_MGR		100 17-AUG-02

...

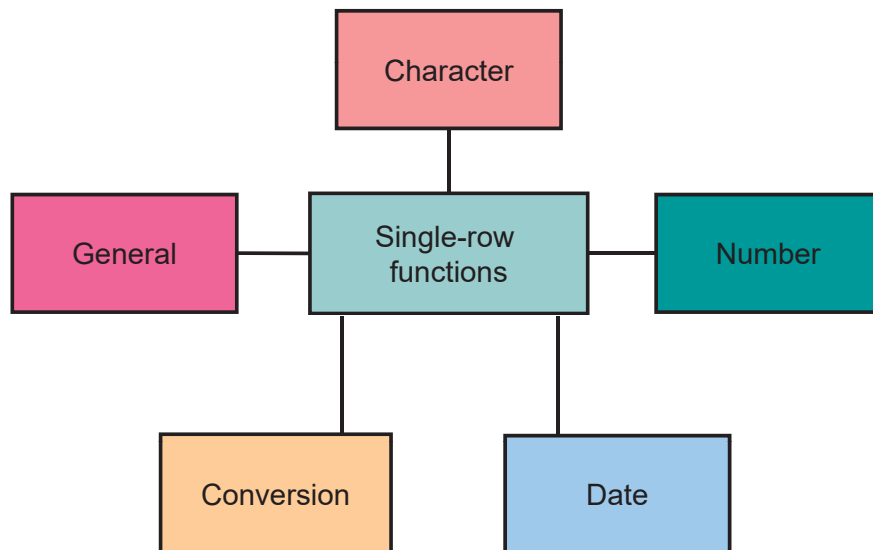
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Review of SQL Functions



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Review of Single-Row Functions



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Summary

In this lesson, you should have learned how to:

- Discuss the goals of the course
- Describe the database schema and tables that are used in the course
- Identify the available environments that can be used in the course
- Recall some of the basic concepts of SQL