1. General Concepts

1.1 Relational Database Specifications

1. They use the Structured Query Language.
2. Good for managing several Transactions.
3. Creating relations between tables.
4. Good for data analysis and complicate queries.

1.2 Non-Relational Database Specifications

1. Need to use the JSON objects.
2. If the same collection may have different fields or attributes.
3. Used for more complex, with many table that creating relations between them is hard
4. Cannot join data with query easily.

1.2 Common Queries

1.2.a Creating a New User and Granting Privillages

CREATE USER turgay IDENTIFIED BY turgay;

GRANT CREATE SESSION TO turgay WITH ADMIN OPTION;

GRANT DBA TO turgay WITH ADMIN OPTION

1.2.b Main Queries

sqlplus "/ as sysdba"

select username from dba\_users;

select \* from v$version;

2. Main Database Functionalities

2.1 Queries

2.1.1 Select

2.1.2 Insert

INSERT INTO table (column1,column2) VALUES(value1,value2)

2.1.3 Delete

DELETE FROM table WHERE column = value ;

2.1.4 Update

UPDATE table SET column = value WHERE ...;

2.1.5 Order By

*ORDER BY {* [*column-Name*](https://docs.oracle.com/javadb/10.8.3.0/ref/rrefcolumnname.html#rrefcolumnname) *| ColumnPosition | Expression } [ ASC | DESC ]*

2.1.6 Join Queries

2.2 Triggers

2.3 Views and Indexes

2.3 Stored Procedures