_	Assignment 2
	Title: Design and develop SQL DDL statements which demonstrate the use of SQL objec
	such as creation of: Table, View, Index, Sequence, Synonym
	Problem Statement: Implement DDL commands in context of view, index, sequence
	Learning Objective:
_	· To understand & implement the various DDL Commands.
,	· To understand database concepts like view, index, sequence and synonym.
_	Learning Outcome: The students will be able to
	\cdot Use and Implement the DDL commands like Create the tables, Alter the table structu
	· Implement view, index (types of index), synonym and sequence concept.
	Software packages and hardware apparatus used:
	· My SQ L
_	· 64-bit Linux based open source OS
_	· 8 GB RAM
	Concept related theory:
	DDL COMMANDS: DDL is short form of Data Definition Language, which deals with
	data schemas and description, of how data can reside in database
_	Various commands in DDL are:
	Create:
	Create table command defines each attribute uniquely. Each attribute has 3 mandatory
	things.
-	a. Attribute name
	b. Attribute size
	c. Data type

	Syntax:
	Create table tablename (Attribute_name attribute_datatype(size),Attribute_name
_	_attribute_datatype(size),Attribute_name attribute_datatype(size)n)
	Alter:
_	By using ALTER command existing table can be modified.
	Adding New Columns
_	Syntax: Alter table ADD ((), .n)
	Dropping a Column from the Table
	Syntax: Alter table DROP COLUMN
_	*This command will drop a particular column. *
	Modifying Existing Table
_	Syntax: Alter table MODIFY (())
	Restriction on the Alter table
_	Using the Alter table clause, the following tasks cannot be performed.
_	1. Change the name of the table
_	2. Change the name of the column
_	3. Decrease the size of a column if table data exists
	Drop:
_	The Drop command will destroy table along with the data enteries in it.
	Syntax: Drop table
	Truncate:
	The truncate command deletes all entries existing in tables but keep the structure

Syntax: Truncate Table
Rename:
The rename command is used to rename the table
Syntax: Rename
Creating Views:
Database views are created using the CREATE VIEW statement. Views can be created
from a single table, multiple tables, or another view. To create a view, a user must have
the appropriate system privilege according to the specific implementation.
Syntax: Create View view_name As Select column1, column2From table_name Where
condition;
Updating a view:
A view can be updated with a CREATE or REPLACE view command
Syntax: Create or Replace View view_name As Select column1, column2,From
table_name Where condition
Dropping views:
 Syntax: Drop View view_name
INDEX
An index can be created in a table to find data more quickly and efficiently.
The users cannot see the indexes, they are just used to speed up searches/queries.
Note: Updating a table with indexes takes more time than updating a table without
(because the indexes also need an update). So, you should only create indexes on column
(and tables) that will be frequently searched against.
Creating index:

Syntax: Create Index_index_name ON table_name (column1, column2)
Drop index:
Syntax: Alter table table_name Drop Index index_name
SEQUENCES
Sequences are frequently used in the databases because many applications require each rou in a table to contain a unique value and sequences provide an easy way to generate them.
The simplest way to use sequences in mysql is to define as AUTO_INCREMENT and leave the remaining things to mysql
Generic syntax: Create Sequence sequence_name Start With initial-value Increment By increment-value maxvalue maximum-value cycle nocycle
SYNONYMS A synonym is an alternative name for objects such as tables, views, sequences, stored
procedures and other database objects. You generally use synonyms when you are granting access to an object from another schema and you don't want the users to have to worry about knowing which schema owns
the object. Syntax: Create Synonym For .
Note: Synonyms are not possible in mysql. The above syntax works in OracleSQL.
Conclusion: Through this assignment, I have implemented all the DDL statements queries and also
implemented views, indexes, sequences and synonyms