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# CHECKLIST CHAPTER - 13 MY SQL REVISION TOUR

## MYSQL DATABASE

- [ ] Relational Data Model - Referential Integrity
- [ ] MySQL and SQL - Classification of MySQL Statements
- [ ] Common MySQL Data Types, Difference Between Char and Varchar

## STARTING IN MYSQL

- [ ] Accessing Database in MySQL
- [ ] Creating Tables in MySQL
- [ ] Inserting Datainto MySQL - Inserting NULL Values, Inserting Dates

## MAKING SIMPLE QUERIES

- [ ] Selecting all Data, Selecting Particular rows or columns
- [ ] Using Distinct Keyword, ALL Keyword
- [ ] Viewing Structure of a Table, Performing Simple Calculations
- [ ] Using Column Aliases
- [ ] Condition based on Range, List, Pattern Matches
- [ ] Searching for NULL

## CREATING TABLE THROUGH SQL CONSTRAINT

- [ ] SQL Constraints- NOT NULL, DEFAULT, UNIQUE, CHECK, PRIMARY KEY,
- [ ] FOREIGN KEY
- [ ] APPLYING TABLE Consraint
- [ ] Viewing Table Structure
- [ ] Inserting data into Another Table
- [ ] Modfying

## NESTED/TWO DIMENSIONAL LISTS IN PYTHON

- [ ] Creating a 2D List
- [ ] Traversing a 2D List
- [ ] Accessing/Changing Individual Elements
- [ ] How a Two-Dimensional List is Stored
- [ ] Slices ofTwo-Dimensional Lists

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# CHECKLIST CHAPTER - 14 MORE ON SQL

## ORDER BY CLAUSE

- [ ] SQL Select Order by Clause
- [ ] Ordering Data in Multiple Columns, on the basis of an Expression
- [ ] Specifying Custom Sort order

## AGGREGATE FUNCTIONS

- [ ] AVG, COUNT
- [ ] MAX, MIN
- [ ] SUM

## TYPES OF SQL FUNCTIONS

- [ ] Single Row Functions
- [ ] Multiple Row Functions

## GROUPING RESULT - GROUP BY

- [ ] Nested Groups - Grouping on Multiple Columns
- [ ] Placing Conditions on Groups - HAVING Clause
- [ ] Non-Group Expressions with GROUP BY

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# CHECKLIST CHAPTER - 15 DJANGO BASED WEB APPLICATION

## BASICS OF WEB PROGRAMMING

- [ ] Framework Vs Library
- [ ] HTTP GET Request
- [ ] HTTP POST Request

## GETTING STARTED WITH DJANGO

- [ ] Why Django?
- [ ] Installing Django in Virtual Environment
- [ ] Projects vs Apps
- [ ] Understanding Django Project Architecture

## MVT MODEL

- [ ] Creating Models
- [ ] Creating Templates
- [ ] Creating Views
- [ ] Creating URL Configs

## MISCELLANEOUS

- [ ] CRUD Operations

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# CHECKLIST CHAPTER - 16 INTERFACE PYTHON WITH MYSQL

## CONNECTING TO MYSQL FROM PYTHON

- [ ] Steps for creating Database Connectivity Applicarions - Start Python,
- [ ] Import mysql.connector Package
- [ ] Open a Connection to MySQL Database,
- [ ] Create a Cursor Instance,
- [ ] Execute SQL Query,
- [ ] Extract Data from Resultset,
- [ ] Clean up Envitonment

## PARAMETERISED QUERIES

- [ ] Forming Query Strings
- [ ] Performing Insert Queries
- [ ] Performing Update Querries