UNIVERSITÀ DEGLI STUDI DI PADOVA

DIPARTIMENTO DI INGEGNERIA DELL'INFORMAZIONE

Foundations of Databases A.Y. 2021-2022

Homework 3 – Physical Design

Master Degree in Computer Engineering
Master Degree in Cybersecurity
Master Degree in ICT for Internet and Multimedia

Deadline: December 17, 2021

Team acronym	TAGMS	
Last Name	**First Name**	**Student Number**
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Insert last name here	Insert first name here	Insert student number here
Insert last name here	Insert first name here	Insert student number here

Variations to the Relational Schema

[Describe here variations and/or corrections to the relational schema of the previous homework, if present. Otherwise, report only the relational schema.]

Physical Schema

[Report SQL statements for the database creation]

Populate the Database: Example

[Report SQL statements for the database population: one row per table is enough for the HW, but we suggest to insert a sufficient amount of data in your DB to run queries]

Principal Queries

[Write some of the queries to be performed to satisfy your functional requirements. 3-4 queries are enough, try to use the techniques seen at lecture (aggregate functions, group by, subqueries,. . .)]

```
SELECT t1.attr1
FROM table1 as t1
    LEFT JOIN table2 as t2 ON t1.attr2=t2.attr1
WHERE t1.attr3=1
```

JDBC Implementations of the Principal Queries and Visualization

[Report java code to test your DB. Perform 1-2 queries and display the results]

```
/*
 *  Write here your java code
 */

public class HelloWorld {

    public static void main(String[] args) {
        System.out.println("Hello world!");
    }
}
```

Group Members Contribution