CREATE TABLE Table\_Metadata (

TableName VARCHAR (255),

PrimaryKeyIndex VARCHAR (255),

SecondaryKeyIndex VARCHAR (255),

ClusteringIndex VARCHAR (255),

AvrgRowLength INT,

TableSize INT,

NumberOfRecords INT,

NumberOfBlocks INT,

BlockingFactor INT

);

CREATE TABLE Index\_Metadata (

FieldName VARCHAR (255),

TableName VARCHAR (255),

TypeOfIndex VARCHAR (255),

StructureOfIndex VARCHAR (255),

Unique VARCHAR (255),

HeightOfTree INT,

DistinctValues INT

);

CREATE TABLE Attribute\_Metadata (

TableName VARCHAR (255),

AttributeName VARCHAR (255),

DataType VARCHAR (255),

KeyType VARCHAR (255),

Unique VARCHAR (255),

Sorted VARCHAR (255),

TypeOfIndex VARCHAR (255),

DistinctValues INT,

Nullable VARCHAR (255)

);

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Creating indexes:

CREATE UNIQUE INDEX primary\_idx\_DCode ON dept (DCode ASC);

CREATE INDEX secondary\_idx\_DName ON dept (DName);

CREATE UNIQUE INDEX primary\_idx\_CCode ON Course (CCode ASC);

CREATE INDEX secondary\_idx\_CoName ON Course (CoName);

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INSERT INTO Table\_Metadata VALUES ('Dept','DCode','DName','null',20,50,36,14,10);

INSERT INTO Table\_Metadata VALUES (‘Course’,’ CCode’,’ ’DeptDName’,’null’,15,50, 60,20,10);

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INSERT INTO Index\_Metadata VALUES ('DCode', 'dept', 'PI', 'B+ tree', 'unique', 40, 36);

INSERT INTO Index\_Metadata VALUES (‘DName’,’dept’,’SI’,’B+ tree’,’unique’,40,36);

INSERT INTO Index\_Metadata VALUES (‘CCode’,’Course’,’PI’,’B+ tee’,’unique’,40,60);

INSERT INTO Index\_Metadata VALUES (‘CoName,’Course’,’SI’,’B+ tree’,’unique’,40,60);

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INSERT INTO Attribute\_Metadata VALUES('dept','Dcode','INT','PK','unique','yes','PI',36,'not null');

INSERT INTO Attribute\_Metadata VALUES('dept','DName','VARCHAR','PK','unique','no','SI',36,'not null');

INSERT INTO Attribute\_Metadata VALUES('dept','DOffice','VARCHAR','null','no','no','null',30,'null');

INSERT INTO Attribute\_Metadata VALUES('dept','DPhone','VARCHAR','null','no','no','null',30,'null');

INSERT INTO Attribute\_Metadata VALUES('dept','DstarDate','Date','null','no','no','null',30,'not null');

INSERT INTO Attribute\_Metadata VALUES('dept','CollegeCName','VARCHAR','FK','no','no','null',30,'not null');

INSERT INTO Attribute\_Metadata VALUES('dept','InstructorId','INT','FK','no','no','null',30,'not null');

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INSERT INTO Attribute\_Metadata VALUES('Course','CCourse','INT','PK','unique','yes','PI','60','not null');

INSERT INTO Attribute\_Metadata VALUES('Course','CoName','VARCHAR', 'PK','unique','no','PI','60','not null');

INSERT INTO Attribute\_Metadata VALUES('Course','Credits','INT','null','no','no','null',6,'null');

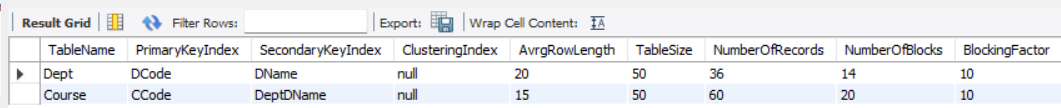
INSERT INTO Attribute\_Metadata VALUES('Course','Level','INT','null','no','no','null',4,'null');

INSERT INTO Attribute\_Metadata VALUES('Course','CDesc','VARCHAR','null','no','no','null',60,'null');

INSERT INTO Attribute\_Metadata VALUES('Course','DeptDName','VARCHAR','FK','unique','no','null', 36,'not null');

INSERT INTO Attribute\_Metadata VALUES('Course','DeptDCode','INT','FK','unique','no','null', 36,'not null');

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Table\_Metadata A screenshot of a computer

Description automatically generated:

Index\_Metadata:

Attribute\_Metadata A screenshot of a computer

Description automatically generated