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**TASK - #2**

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1. ER Flow Diagram.

AUTHORS

PAPERS

SUBMITS

REVIEWERS

1

N 1

ASSIGNED

GIVES

1

REVIEWS

M N

**SQL STATEMENTS :**

**CREATE TABLE AUTHORS (**

**Authors\_Mail\_Id varchar(30) NOT NULL PRIMARY KEY,**

**First\_Name varchar(30),**

**Last\_Name varchar(30)**

**);**

**CREATE TABLE PAPERS (**

**Paper\_Id int(8) NOT NULL AUTO\_INCREMENT PRIMARY KEY,**

**Title varchar(60),**

**Abstract varchar(200),**

**File\_Name varchar(60),**

**Contact\_Mail\_Id varchar(30) NOT NULL,**

**FOREIGN KEY (Contact\_Mail\_Id) REFERENCES AUTHORS(Authors\_Mail\_Id)**

**);**

**CREATE TABLE REVIEWERS (**

**Reviewers\_Mail\_Id varchar(30) NOT NULL PRIMARY KEY,**

**First\_Name varchar(30),**

**Last\_Name varchar(30)**

**);**

**CREATE TABLE REVIEWS (**

**Review\_Id int(8) NOT NULL AUTO\_INCREMENT PRIMARY KEY,**

**Paper\_Id int(8) NOT NULL,**

**Ratings int(2),**

**Author\_Feedbacks varchar(200),**

**Committee\_Feedbacks varchar(200),**

**Mail\_Id varchar(30) NOT NULL,**

**FOREIGN KEY (Paper\_Id) REFERENCES PAPERS(Paper\_Id),**

**FOREIGN KEY (Mail\_Id) REFERENCES REVIEWERS(Reviewers\_Mail\_Id)**

**);**

**INSERT INTO AUTHORS (Authors\_Mail\_Id, First\_Name, Last\_Name) VALUES**

**(‘raviprakash@gmail.com’, ‘Ravi’, ‘Prakash’),**

**(‘sai.krishna@gmail.com’, ‘Sai’, ‘Krishna’) ;**

**INSERT INTO PAPERS (Paper\_Id, Title, Abstract, File\_Name, Contact\_Mail\_Id) VALUES**

**(1, ‘Economic’, NULL, ‘Economics\_papers’, ‘raviprakash@gmail.com’),**

**(2, ‘Data Science’, NULL, ‘Datascience\_papers’, ‘sai.krishna@gmail.com’);**

**INSERT INTO REVIEWERS (Reviewers\_Mail\_Id, First\_Name, Last\_Name) VALUES**

**(‘sanath.reddy@gmail.com’, ‘Sanath’, ‘Reddy’),**

**(‘sadhana.rao@gmail.com’, ‘Sadhana’, ‘Rao’);**

**INSERT INTO REVIEWS (Review\_Id, Paper\_Id, Ratings, Author\_Feedbacks, Committee\_Feedbacks,Mail\_Id) VALUES**

**(1, 1, 5, ‘100% enhancement’, ‘No Proof of enhancement’, ‘sanath.reddy@gmail.com’),**

**(1, 1, 10, ‘100% can reduce time complexity’, ‘Tested and produced good outputs’, ‘No Proof of enhancement’, ‘sadhana.rao@gmail.com’);**

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**TASK - #1**

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**CREATE TABLE `colleges` (**

**`CName` varchar(30) NOT NULL,**

**`COffice` varchar(30) DEFAULT NULL,**

**`CPhone` BIGINT DEFAULT NULL,**

**`DeanId` varchar(30) DEFAULT NULL,**

**`DCode` varchar(30) DEFAULT NULL,**

**PRIMARY KEY (`CName`),**

**KEY `DeanId` (`DeanId`),**

**KEY `DCode` (`DCode`),**

**CONSTRAINT `colleges\_ibfk\_1` FOREIGN KEY (`DeanId`) REFERENCES `instructors` (`Id`),**

**CONSTRAINT `colleges\_ibfk\_2` FOREIGN KEY (`DCode`) REFERENCES `departments` (`DCode`)**

**)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;**

**CREATE TABLE `courses` (**

**`CCode` varchar(30) NOT NULL,**

**`Credit` INT(3) DEFAULT NULL,**

**`CoName` varchar(30) DEFAULT NULL,**

**`Levels` INT(5) DEFAULT NULL,**

**`CDesk` varchar(30) DEFAULT NULL,**

**`SecId` varchar(30) DEFAULT NULL,**

**PRIMARY KEY (`CCode`),**

**KEY `SecId` (`SecId`),**

**CONSTRAINT `courses\_ibfk\_1` FOREIGN KEY (`SecId`) REFERENCES `sections` (`SecId`)**

**)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci ;**

**CREATE TABLE `departments` (**

**`DCode` varchar(30) NOT NULL,**

**`DName` varchar(30) DEFAULT NULL,**

**`DOffice` varchar(30) DEFAULT NULL,**

**`DPhone` BIGINT DEFAULT NULL,**

**`CCOde` varchar(30) DEFAULT NULL,**

**`Instid` varchar(30) DEFAULT NULL,**

**`SId` varchar(30) DEFAULT NULL,**

**PRIMARY KEY (`DCode`),**

**UNIQUE KEY `DCode` (`DCode`),**

**KEY `CCOde` (`CCOde`),**

**KEY `SId` (`SId`),**

**KEY `departments\_ibfk\_3\_idx` (`Instid`),**

**CONSTRAINT `departments\_ibfk\_1` FOREIGN KEY (`CCOde`) REFERENCES `courses` (`CCode`),**

**CONSTRAINT `departments\_ibfk\_2` FOREIGN KEY (`SId`) REFERENCES `students` (`SId`),**

**CONSTRAINT `departments\_ibfk\_3` FOREIGN KEY (`Instid`) REFERENCES `instructors` (`Id`)**

**)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;**

**CREATE TABLE `instructors` (**

**`Id` varchar(30) NOT NULL,**

**`IName` varchar(30) DEFAULT NULL,**

**`Ranks` varchar(30) DEFAULT NULL,**

**`IOffice` varchar(30) DEFAULT NULL,**

**`IPhone` BIGINT DEFAULT NULL,**

**`DCode` varchar(30) DEFAULT NULL,**

**`CStartDate` DATE DEFAULT NULL,**

**`SecId` varchar(30) DEFAULT NULL,**

**PRIMARY KEY (`Id`),**

**KEY `DCode` (`DCode`),**

**KEY `SecId` (`SecId`),**

**CONSTRAINT `instructors\_ibfk\_1` FOREIGN KEY (`DCode`) REFERENCES `departments` (`DCode`),**

**CONSTRAINT `instructors\_ibfk\_2` FOREIGN KEY (`SecId`) REFERENCES `sections` (`SecId`)**

**)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;**

**CREATE TABLE `sections` (**

**`SecId` varchar(30) NOT NULL,**

**`SecNo` varchar(30) DEFAULT NULL,**

**`Sem` varchar(30) DEFAULT NULL,**

**`Years` YEAR DEFAULT NULL,**

**`Bldg` varchar(30) DEFAULT NULL,**

**`RoomNO` varchar(30) DEFAULT NULL,**

**`DaysTime` DATETIME DEFAULT NULL,**

**PRIMARY KEY (`SecId`)**

**)ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;**

**CREATE TABLE `students` (**

**`SId` varchar(30) NOT NULL,**

**`DOB` DATE NOT NULL,**

**`FName` varchar(30) DEFAULT NULL,**

**`LName` varchar(30) DEFAULT NULL,**

**`Address` varchar(30) DEFAULT NULL,**

**`Phone` BIGINT DEFAULT NULL,**

**`Major` varchar(30) DEFAULT NULL,**

**PRIMARY KEY (`SId`)**

**) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;**

**CREATE TABLE `takes` (**

**`SId` varchar(30) NOT NULL,**

**`Grade` varchar(30) DEFAULT NULL,**

**`SecId` varchar(30) DEFAULT NULL,**

**PRIMARY KEY (`SId`),**

**KEY `SecId` (`SecId`),**

**CONSTRAINT `takes\_ibfk\_1` FOREIGN KEY (`SecId`) REFERENCES `sections` (`SecId`)**

**) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4\_0900\_ai\_ci;**