

Blastonbury Pop Festival Database

Systems 5COM2005- 2022/2023

Student Record Number (SRN): 20049583

Part 1 – ORACLE

Mark 50

Q1.1 Database Modelling / SQL

marks 10

Construct an Entity-Relationship diagram to model the specification described below.

The following stages should be undertaken:

- A. Identify the relevant Entities and label them appropriately (marks 3)
- B. Link these with the relevant Relationships, these should be (marks 5)
 - Labelled appropriately
 - Define the type of relationship (1:1, 1:M or M:M)
 - Resolve any many-to-many relationships
 - Identify attributes for each entity and identify Primary and Foreign Keys (marks 2)

Your report needs to have ER-Diagram.

Specification

Blastonbury Pop Festival database:

1.1 a) Identify the relevant Entities and label them appropriately

Musician (MusicianID, Name, NickName, DOB, Genre, BandID)

Band (BandID, Name, Description, AgentID)

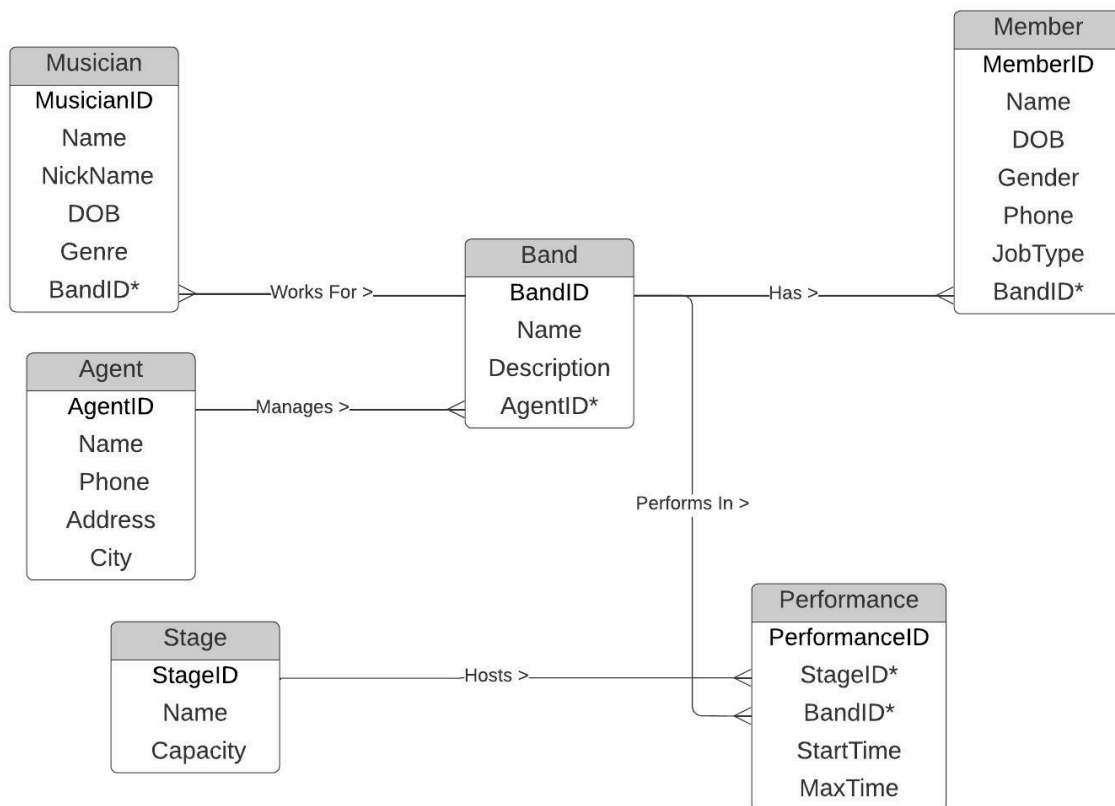
Member(MemberID, Name, DOB, Gender, Phone, JobType, BandID)

Agent(AgentID, Name, Phone, Address, City)

Stage(StageID, Name, Capacity)

Performance(PerformanceID, StageID, BandID, StartTime, MaxTime)

1.1 b) ER diagram:



Q 1.2 Design Tables

marks 10

Login to UH oracle through Oracle SQL Developer and create appropriate tables with all constraints which reflects the ER diagram you have designed in Q1.

You report needs to have all SQL script to create tables, add constraints on them.

SQL to create database in Oracle

```
CREATE TABLE Agent(
```

```
    AgentID VARCHAR2(5) PRIMARY KEY,
```

```
    Name VARCHAR2(50),
```

```
    Phone VARCHAR2(13),
```

```
    Address VARCHAR2(100),
```

```
    City VARCHAR(30)
```

```
);
```

```
CREATE TABLE Band(
```

```
    BandID VARCHAR2(5) PRIMARY KEY,
```

```
    Name VARCHAR2(50),
```

```
    Description VARCHAR2(255),
```

```
    AgentID VARCHAR2(5),
```

```
    FOREIGN KEY (AgentID) REFERENCES Agent(AgentID) ON DELETE  
CASCADE
```

```
);
```

```
CREATE TABLE Musician(
```

```
    MusicianID VARCHAR2(5) PRIMARY KEY,
```

```
    Name VARCHAR2(50),
```

```
NickName VARCHAR2(30),  
  
DOB DATE,  
  
Genre VARCHAR2(30),  
  
BandID VARCHAR2(5),  
  
FOREIGN KEY (BandID) REFERENCES Band(BandID) ON DELETE  
CASCADE  
  
);
```

```
CREATE TABLE Member(  
  
    MemberID VARCHAR2(6) PRIMARY KEY,  
  
    Name VARCHAR2(50),  
  
    DOB DATE,  
  
    Gender CHAR(1),  
  
    Phone VARCHAR2(12),  
  
    JobType VARCHAR2(30),  
  
    BandID VARCHAR2(5),  
  
    FOREIGN KEY (BandID) REFERENCES Band(BandID) ON DELETE  
CASCADE  
  
);
```

```
CREATE TABLE Stage(  
  
    StageNo VARCHAR(10) PRIMARY KEY,
```

Name VARCHAR2(50),

Capacity INTEGER

);

CREATE TABLE Performance(

PerformanceID INTEGER PRIMARY KEY,

StageNo VARCHAR2(10),

BandID VARCHAR(5),

StartTime TIMESTAMP(6),

MaxTime TIMESTAMP(6),

FOREIGN KEY (StageNo) REFERENCES Stage(StageNo) ON DELETE
CASCADE,

FOREIGN KEY (BandID) REFERENCES Band(BandID) ON DELETE
CASCADE

);

Q 1.3 Insert Data

marks 10

Let us assume that there are two Agents- Agent1 and Agent2. The first Agent manages 3 bands and second agent manages 2 bands. There are in total 20 musicians distributed between the 5 bands, at least 5 different job types.

Now write an appropriate SQL statement (INSERT) to populate the tables with records under the above specification. You are free to consider any number of other objects do not provide in above specification.

Your report should have all SQL script to populate your table in ORACLE DB.

1.3 a) Insert statements of 2 Agents:

```
INSERT INTO Agent VALUES('AG001', 'James Smith', '078-4293-2257', '89 Manor Way','Great Linford');
```

```
INSERT INTO Agent VALUES('AG002', 'Julie McEwen', '079-1249-8524', '49 Trehafod Road','Buck"s Mills');
```

1.3 b) Insert statements for 5 Bands

```
INSERT INTO Band VALUES('BN001', 'The Killers', 'recognised as one of the biggest rock acts in the world', 'AG001');
```

```
INSERT INTO Band VALUES('BN002', 'The Eagles', 'Factory Records changed the face of British music and Joy Division were a huge part of its success', 'AG002');
```

```
INSERT INTO Band VALUES('BN003', 'Foo Fighters', 'The mod revival the band helped to spark a whole subculture just shows how influential', 'AG002');
```

```
INSERT INTO Band VALUES('BN004', 'Red Hot Chili Peppers', 'Get It On, Metal Guru and Children Of The Revolution', 'AG001');
```

```
INSERT INTO Band VALUES('BN005', 'Guns N Roses', 'The group released era-defining classics like Paranoid, War Pigs and Iron Man, and influenced the outlook of British rock music', 'AG002');
```

1.3 c) Insert Statements for 20 Musicians

```
INSERT INTO Musician VALUES ('MU101','Richard Molavi', NULL,'2-Jun-92','Hip Hop','BN001');
```

```
INSERT INTO Musician VALUES ('MU102','Megan Williams',NULL , '13-Mar-93','Rock','BN002');
```

```
INSERT INTO Musician VALUES ('MU103','William Clifford',NULL,'12-May-96','Hip Hop','BN003');
```

```
INSERT INTO Musician VALUES ('MU104','Robert Meadows','Yardbird','26-Aug-98','Rock','BN004');
```

```

INSERT INTO Musician VALUES ('MU105','James Marsh',NULL,'16-Apr-99','Club','BN005');

INSERT INTO Musician VALUES ('MU106','James Miles',NULL,'16-May-90','Pop','BN001');

INSERT INTO Musician VALUES ('MU107','Joseph Sanders',NULL,'12-Aug-97','Beat','BN002');

INSERT INTO Musician VALUES ('MU108','Julie Whittaker','The Queen of Soul','10-Nov-86','Hip Hop','BN003');

INSERT INTO Musician VALUES ('MU109','Adrian Davis',NULL,'19-Jan-90','Beat','BN004');

INSERT INTO Musician VALUES ('MU110','Linda Yorke',NULL,'19-Feb-86','Club','BN005');

INSERT INTO Musician VALUES ('MU111','Fiona Kelso',NULL,'3-Jul-97','Pop','BN001');

INSERT INTO Musician VALUES ('MU112','Adrian Marsh',NULL,'1-Mar-88','Rock','BN002');

INSERT INTO Musician VALUES ('MU113','Martyn Holmes',NULL,'25-Apr-98','Hip Hop','BN003');

INSERT INTO Musician VALUES ('MU114','Marie-Lisa Johannsson','The Fab Four','19-Mar-97','Beat','BN004');

INSERT INTO Musician VALUES ('MU115','Nelson Hadlow',NULL,'21-May-91','Hip Hop','BN005');

INSERT INTO Musician VALUES ('MU116','John Lugini','The Man in Black','4-May-96','Pop','BN001');

INSERT INTO Musician VALUES ('MU117','Ramirez Damatos',NULL,'28-Sep-98','Rock','BN002');

INSERT INTO Musician VALUES ('MU118','Kelly Wight',NULL,'2-Feb-99','Beat','BN003');

INSERT INTO Musician VALUES ('MU119','George Diamond','The Lizard King','15-Nov-97','Beat','BN004');

INSERT INTO Musician VALUES ('MU120','Joanna Neilson',NULL,'24-Mar-98','Club','BN005');

```

1.3 d) Insert Statement for 12 Members

```

INSERT INTO Member VALUES('ME001','Jennifer Wilmott','15-Dec-97','F','797-577-7666','Drummer','BN001');

INSERT INTO Member VALUES('ME002','Roberto Mace','6-Feb-96','M','797-577-7667','Lightman','BN002');

INSERT INTO Member VALUES('ME003','Wayne Hartmore','16-Mar-98','M','797-577-7668','Security','BN003');

INSERT INTO Member VALUES('ME004','Graeme Davis','14-Sep-96','M','797-577-7669','Beat Boxer','BN004');

```



```
INSERT INTO Member VALUES('ME005','Patrick Connor','8-Nov-97','F','797-577-7670','Electrician','BN001');
```

```
INSERT INTO Member VALUES('ME006','Peter Court','4-Jan-89','M','797-577-7671','Drummer','BN002');
```

```
INSERT INTO Member VALUES('ME007','Natalie French','19-Feb-97','F','797-577-7672','Lightman','BN003');
```

```
INSERT INTO Member VALUES('ME008','Josephine Trotter','19-Oct-95','F','797-577-7673','Security','BN004');
```

```
INSERT INTO Member VALUES('ME009','Trevor Mills','1-Jan-86','M','797-577-7674','Beat Boxer','BN005');
```

```
INSERT INTO Member VALUES('ME010','Joanna Repetto','30-Sep-90','M','797-577-7675','Electrician','BN001');
```

```
INSERT INTO Member VALUES('ME011','Michelle Caprice','16-Apr-97','M','797-577-7676','Lightman','BN003');
```

```
INSERT INTO Member VALUES('ME012','Jackie Matthews','5-Aug-97','M','797-577-7677','Security','BN005');
```

1.3 e) Insert Statement of 4 Stages

```
INSERT INTO Stage VALUES('Stage1', 'John Peel Stage', 300);
```

```
INSERT INTO Stage VALUES('Stage2', 'Marlin Stage', 600);
```

```
INSERT INTO Stage VALUES('Stage3', 'Great Britain Stage', 1200);
```

```
INSERT INTO Stage VALUES('Stage4', 'Youth Club Stage', 500);
```

1.3 f) Insert Statement of 9 Performances

```
INSERT INTO Performance  
VALUES(1,'Stage1','BN001',To_date('12:00','HH24:MI'),To_date('14:00','HH24:MI'));
```

```
INSERT INTO Performance  
VALUES(2,'Stage1','BN002',To_date('15:00','HH24:MI'),To_date('17:00','HH24:MI'));
```

```
INSERT INTO Performance  
VALUES(3,'Stage1','BN003',To_date('18:00','HH24:MI'),To_date('20:00','HH24:MI'));
```

INSERT	INTO	Performance
VALUES(4,'Stage1','BN004',To_date('21:00','HH24:MI'),To_date('23:00','HH24:MI'));		
INSERT	INTO	Performance
VALUES(5,'Stage2','BN005',To_date('15:00','HH24:MI'),To_date('17:00','HH24:MI'));		
INSERT	INTO	Performance
VALUES(6,'Stage2','BN002',To_date('18:00','HH24:MI'),To_date('20:00','HH24:MI'));		
INSERT	INTO	Performance
VALUES(7,'Stage2','BN003',To_date('21:00','HH24:MI'),To_date('23:00','HH24:MI'));		
INSERT	INTO	Performance
VALUES(8,'Stage3','BN001',To_date('18:00','HH24:MI'),To_date('20:00','HH24:MI'));		
INSERT	INTO	Performance
VALUES(9,'Stage3','BN002',To_date('21:00','HH24:MI'),To_date('23:00','HH24:MI'));		

Q 1.4 SQL VIEWS

marks 10

A. Create a view named 'AgentJobs' which display the number of different jobs carried out by each Agents.

B. Ensure that the view is READ-ONLY

C. Grant user -dp15aad access to the view.

Your report should have script of the view your have created, screen shot of

Select * from AgentJobs and script to grant access.

1.4 A and B)

Creating view with read only option

CREATE or REPLACE VIEW AgentJobs

AS

```
SELECT A.AgentID, COUNT(DISTINCT JobType) AS "DifferentJobs"
```

```
FROM Agent A JOIN Band B ON A.AgentID = B.AgentID
```

```
JOIN Member M ON B.BandID = M.BandID
```

```
GROUP BY A.AgentID
```

```
WITH READ ONLY;
```

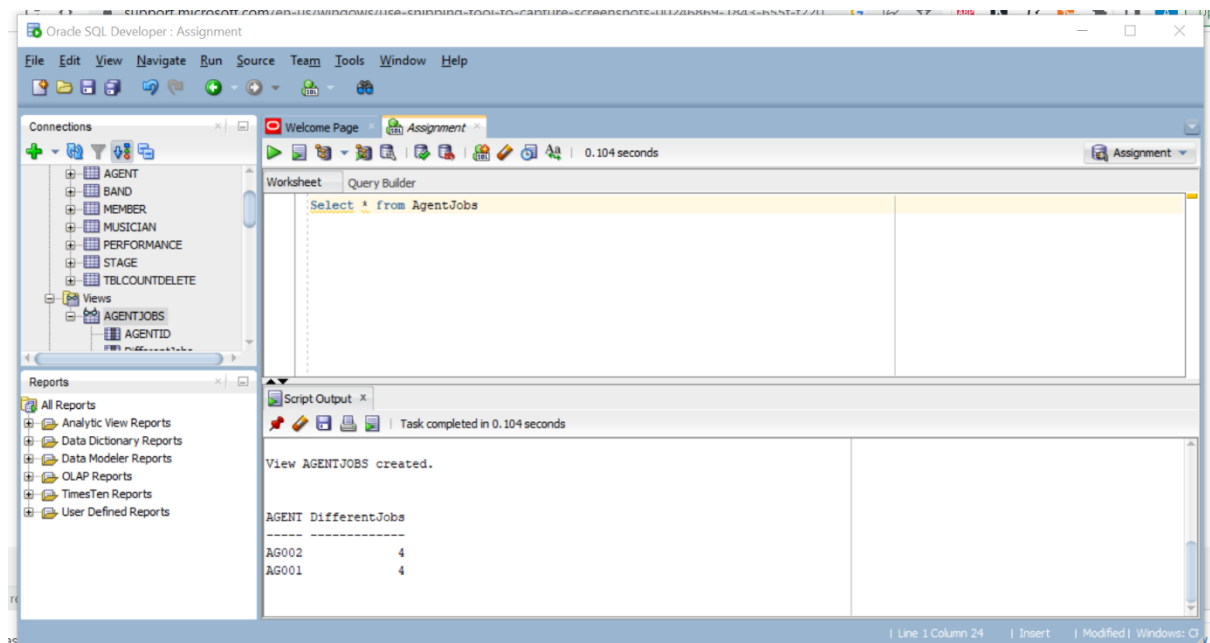


Fig Screen-shot of select clause of the View created.

1.4 c) Grand Access to dp15aad

```
GRANT SELECT ON AgentJobs TO dp15aad;
```

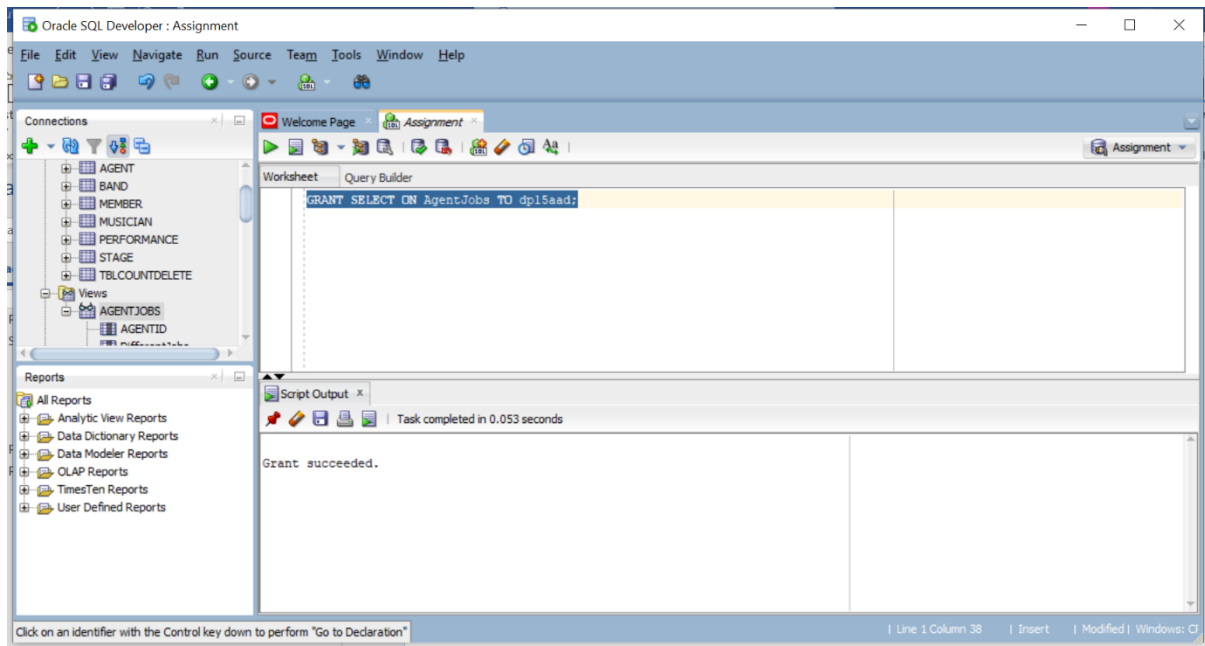


Fig Screen shot of Grant Access

Q 1.5 SQL Tigger

marks 10

Create a new table called `tblCountDelete` – which have only one attribute `countDelete`. The `tblCountDelete` keeps record to number of the time data is

deleted from `Agent` table. Now write appropriate trigger which increase the `countDelete` in the `tblCountDelete` each time an entity is deleted from `Agent` table.

Your report should have SQL for your trigger and evidence that your trigger is

working well i.e. screen shot of the `Select * from tblCountDelete`, before and after a record is deleted from `Agent` table. You can add a dummy data in your `Agent` table..

1.5 a) SQL statement to create tblCountDelete.

```
CREATE TABLE tblCountDelete(countDelete INTEGER);
```

1.5 b) Syntax of Trigger

```
CREATE OR REPLACE TRIGGER TRG_Agent
```

```
    BEFORE DELETE
```

```
    ON Agent
```

```
DECLARE Found INTEGER;
```

```
BEGIN
```

```
    SELECT COUNT(*) INTO Found FROM TblCountDelete;
```

```
    IF Found <= 0 THEN
```

```
        INSERT INTO TblCountDelete VALUES(1);
```

```
    ELSE
```

```
        UPDATE tblCountDelete
```

```
        SET countDelete = countDelete + 1;
```

```
    END IF;
```

```
END;
```

1.5 d) Evidence of trigger working well

At first I insert 0 into the tblCountDelete table:

```
insert into tblCountDelete values (0)
```

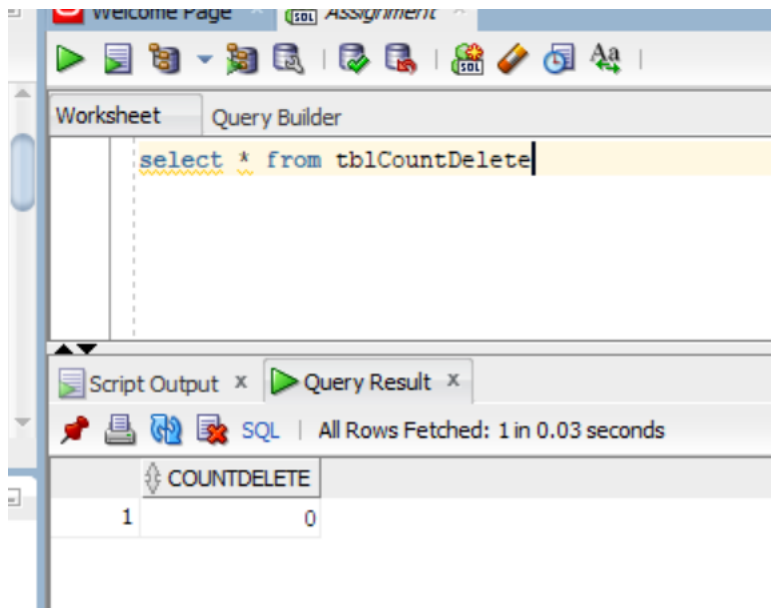


Fig. Screen shot of creating a tblCountDelete with 0 value.

1.5 e) SQL to add 2 Dummy data in Agent

```
INSERT INTO AGENT(AgentID) VALUES('AG000');
```

```
INSERT INTO AGENT(AgentID) VALUES('AG999');
```

1.5 f) Removing the 2 dummy Data from Agent

```
DELETE FROM AGENT WHERE AgentID = 'AG000';
```

```
DELETE FROM AGENT WHERE AgentID = 'AG999';
```

1.5 g) Check if trigger is working or not

View the table tblCountDelete:

```
select * from tblCountDelete
```

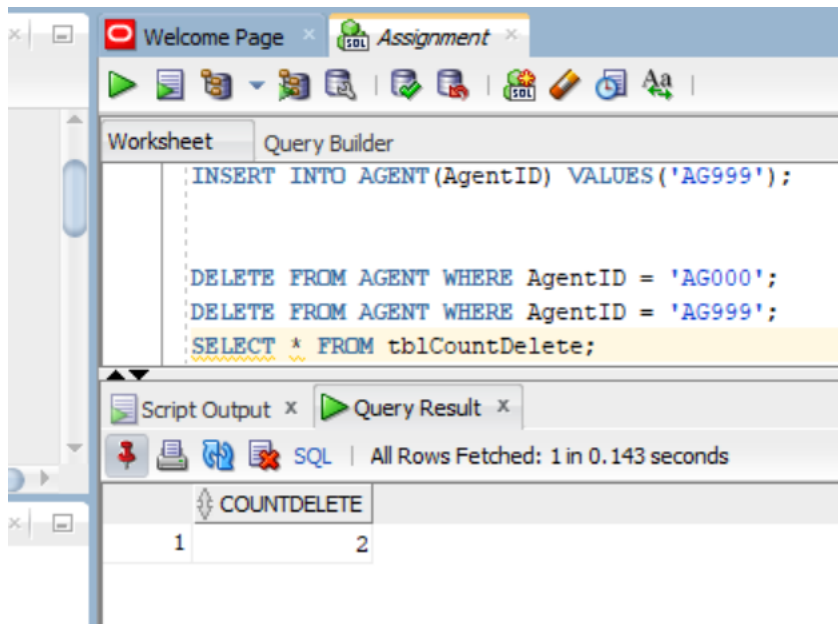


Fig Screen shot of the viewing tblCountDelete after removing 2 dummy Agents.

Part -2 MYSQL – PHP

Mark

30

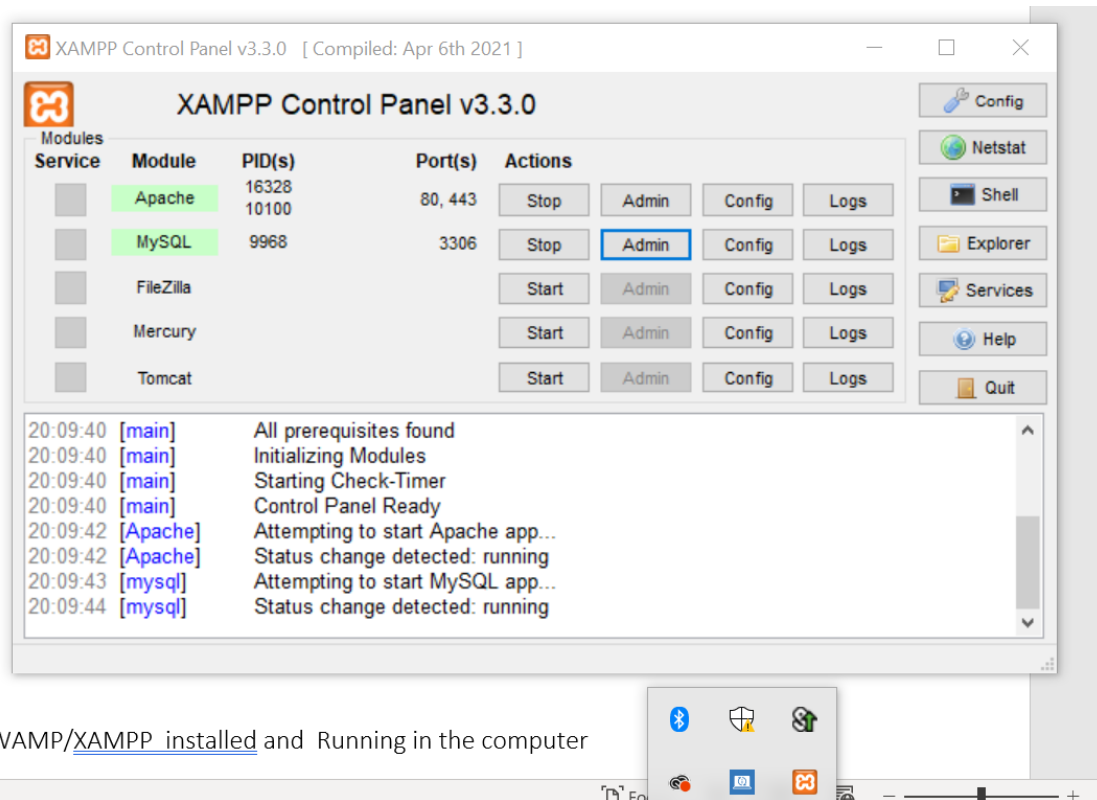
Q 2.1 Moving Dataset to MySQL

marks 20

Please install WAMP in your computer and run all services under WAMP. Export the dataset from ORACLE to MySQL server. Make sure all tables, constraints, records, views and tiggers are moved to MySQL.

Your report should have screen shot of WAMP server running in your computer, screen of all tables and records, screen shot of script of view and script of tigger in MySQL.

2.1 a) Installation of WAMP or XAMPP or .. and running MySQL and Apache Server



WAMP/XAMPP installed and Running in the computer

Fig . WAMP/XAMPP installed and Running on the computer

2.1 b) Creating database in MySQL

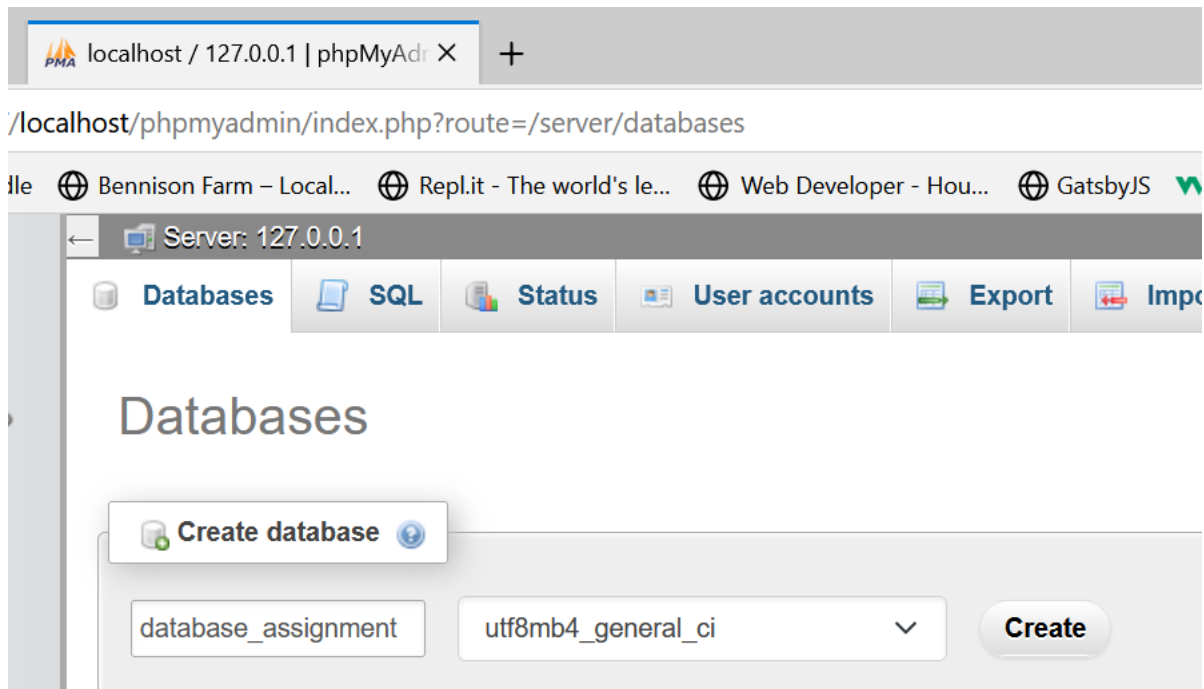


Fig. Screen shot of creating a new database database_assignment in MySQL using phpMyAdmin

2.1 c) Create table in MySQL

```
CREATE TABLE Agent(  
    AgentID VARCHAR(5) PRIMARY KEY,  
    Name VARCHAR(50),  
    Phone VARCHAR(13),  
    Address VARCHAR(100),  
    City VARCHAR(30)  
);
```

```
CREATE TABLE Band(  
    BandID VARCHAR(5) PRIMARY KEY,  
    Name VARCHAR(50),
```

```
Description VARCHAR(255),  
  
AgentID VARCHAR(5),  
  
FOREIGN KEY (AgentID) REFERENCES Agent(AgentID) ON DELETE CASCADE  
  
);
```

```
CREATE TABLE Musician(  
  
    MusicianID VARCHAR(5) PRIMARY KEY,  
  
    Name VARCHAR(50),  
  
    NickName VARCHAR(30),  
  
    DOB DATE,  
  
    Genre VARCHAR(30),  
  
    BandID VARCHAR(5),  
  
    FOREIGN KEY (BandID) REFERENCES Band(BandID) ON DELETE CASCADE  
  
);
```

```
CREATE TABLE Member(  
  
    MemberID VARCHAR(6) PRIMARY KEY,  
  
    Name VARCHAR(50),  
  
    DOB DATE,  
  
    Gender CHAR(1),  
  
    Phone VARCHAR(12),  
  
    JobType VARCHAR(30),  
  
    BandID VARCHAR(5),  
  
    FOREIGN KEY (BandID) REFERENCES Band(BandID) ON DELETE CASCADE  
  
);
```

```
CREATE TABLE Stage(  
    StageNo VARCHAR(10) PRIMARY KEY,  
    Name VARCHAR(50),  
    Capacity INTEGER  
);
```

```
CREATE TABLE Performance(  
    PerformanceID INTEGER PRIMARY KEY,  
    StageNo VARCHAR(10),  
    BandID VARCHAR(5),  
    StartTime TIMESTAMP(6) NULL DEFAULT NULL,  
    MaxTime TIMESTAMP(6) NULL DEFAULT NULL,  
    FOREIGN KEY (StageNo) REFERENCES Stage(StageNo) ON DELETE CASCADE,  
    FOREIGN KEY (BandID) REFERENCES Band(BandID) ON DELETE CASCADE  
);
```

2.1 d) Insert Statement in MySQL

```
INSERT INTO Agent VALUES('AG001', 'James Smith', '078-4293-2257', '89 Manor Way','Great Linford');
```

```
INSERT INTO Agent VALUES('AG002', 'Julie McEwen', '079-1249-8524', '49 Trehafod Road','Buck"s Mills');
```

```
INSERT INTO Band VALUES('BN001', 'The Killers', 'recognised as one of the biggest rock acts in the world', 'AG001');
```

INSERT INTO Band VALUES('BN002', 'The Eagles', 'Factory Records changed the face of British music and Joy Division were a huge part of its success', 'AG002');

INSERT INTO Band VALUES('BN003', 'Foo Fighters', 'The mod revival the band helped to spark a whole subculture just shows how influential', 'AG002');

INSERT INTO Band VALUES('BN004', 'Red Hot Chili Peppers', 'Get It On, Metal Guru and Children Of The Revolution', 'AG001');

INSERT INTO Band VALUES('BN005', 'Guns N Roses', 'The group released era-defining classics like Paranoid, War Pigs and Iron Man, and influenced the outlook of British rock music', 'AG002');

INSERT INTO Musician VALUES ('MU101','Richard Molavi', NULL,str_to_date('2-Jun-92', '%e-%b-%y'),'Hip Hop','BN001');

INSERT INTO Musician VALUES ('MU102','Megan Williams',NULL ,str_to_date('13-Mar-93', '%e-%b-%y'),'Rock','BN002');

INSERT INTO Musician VALUES ('MU103','William Clifford',NULL,str_to_date('12-May-96', '%e-%b-%y'),'Hip Hop','BN003');

INSERT INTO Musician VALUES ('MU104','Robert Meadows','Yardbird',str_to_date('26-Aug-98', '%e-%b-%y'),'Rock','BN004');

INSERT INTO Musician VALUES ('MU105','James Marsh',NULL,str_to_date('16-Apr-99', '%e-%b-%y'),'Club','BN005');

INSERT INTO Musician VALUES ('MU106','James Miles',NULL,str_to_date('16-May-90', '%e-%b-%y'),'Pop','BN001');

INSERT INTO Musician VALUES ('MU107','Joseph Sanders',NULL,str_to_date('12-Aug-97', '%e-%b-%y'),'Beat','BN002');

INSERT INTO Musician VALUES ('MU108','Julie Whittaker','The Queen of Soul',str_to_date('10-Nov-86', '%e-%b-%y'),'Hip Hop','BN003');

INSERT INTO Musician VALUES ('MU109','Adrian Davis',NULL,str_to_date('19-Jan-90', '%e-%b-%y'),'Beat','BN004');

INSERT INTO Musician VALUES ('MU110','Linda Yorke',NULL,str_to_date('19-Feb-86', '%e-%b-%y'),'Club','BN005');

INSERT INTO Musician VALUES ('MU111','Fiona Kelso',NULL,str_to_date('3-Jul-97', '%e-%b-%y'),'Pop','BN001');

INSERT INTO Musician VALUES ('MU112','Adrian Marsh',NULL,str_to_date('1-Mar-88', '%e-%b-%y'),'Rock','BN002');

INSERT INTO Musician VALUES ('MU113','Martyn Holmes',NULL,str_to_date('25-Apr-98', '%e-%b-%y'),'Hip Hop','BN003');

INSERT INTO Musician VALUES ('MU114','Marie-Lisa Johannsson','The Fab Four',str_to_date('19-Mar-97', '%e-%b-%y'),'Beat','BN004');

INSERT INTO Musician VALUES ('MU115','Nelson Hadlow',NULL,str_to_date('21-May-91', '%e-%b-%y'),'Hip Hop','BN005');

INSERT INTO Musician VALUES ('MU116','John Lugini','The Man in Black',str_to_date('4-May-96', '%e-%b-%y'),'Pop','BN001');

INSERT INTO Musician VALUES ('MU117','Ramirez Damatos',NULL,str_to_date('28-Sep-98', '%e-%b-%y'),'Rock','BN002');

INSERT INTO Musician VALUES ('MU118','Kelly Wight',NULL,str_to_date('2-Feb-99', '%e-%b-%y'),'Beat','BN003');

INSERT INTO Musician VALUES ('MU119','George Diamond','The Lizard King',str_to_date('15-Nov-97', '%e-%b-%y'),'Beat','BN004');

INSERT INTO Musician VALUES ('MU120','Joanna Neilson',NULL,str_to_date('24-Mar-98', '%e-%b-%y'),'Club','BN005');

INSERT INTO Member VALUES('ME001','Jennifer Wilmott',str_to_date('15-Dec-97', '%e-%b-%y'),'F','797-577-7666','Drummer','BN001');

INSERT INTO Member VALUES('ME002','Roberto Mace',str_to_date('6-Feb-96', '%e-%b-%y'),'M','797-577-7667','Lightman','BN002');

INSERT INTO Member VALUES('ME003','Wayne Hartmore',str_to_date('16-Mar-98', '%e-%b-%y'),'M','797-577-7668','Security','BN003');

INSERT INTO Member VALUES('ME004','Graeme Davis',str_to_date('14-Sep-96', '%e-%b-%y'),'M','797-577-7669','Beat Boxer','BN004');

INSERT INTO Member VALUES('ME005','Patrick Connor',str_to_date('8-Nov-97', '%e-%b-%y'),'F','797-577-7670','Electrician','BN001');

INSERT INTO Member VALUES('ME006','Peter Court',str_to_date('4-Jan-89', '%e-%b-%y'),'M','797-577-7671','Drummer','BN002');

INSERT INTO Member VALUES('ME007','Natalie French',str_to_date('19-Feb-97', '%e-%b-%y'),'F','797-577-7672','Lightman','BN003');

INSERT INTO Member VALUES('ME008','Josephine Trotter',str_to_date('19-Oct-95', '%e-%b-%y'),'F','797-577-7673','Security','BN004');

INSERT INTO Member VALUES('ME009','Trevor Mills',str_to_date('1-Jan-86', '%e-%b-%y'),'M','797-577-7674','Beat Boxer','BN005');

INSERT INTO Member VALUES('ME010','Joanna Repetto',str_to_date('30-Sep-90', '%e-%b-%y'),'M','797-577-7675','Electrician','BN001');

INSERT INTO Member VALUES('ME011','Michelle Caprice',str_to_date('16-Apr-97', '%e-%b-%y'),'M','797-577-7676','Lightman','BN003');

INSERT INTO Member VALUES('ME012','Jackie Matthews', str_to_date('5-Aug-97', '%e-%b-%y'),'M','797-577-7677','Security','BN005');

INSERT INTO Stage VALUES('Stage2', 'Marlin Stage', 600);

INSERT INTO Stage VALUES('Stage3', 'Great Britain Stage', 1200);

INSERT INTO Stage VALUES('Stage4', 'Youth Club Stage', 500);

INSERT INTO Performance
VALUES(1,'Stage1','BN001',str_to_date('12:00','%H:%i:'),str_to_date('14:00','%H:%i:'));

INSERT INTO Performance
VALUES(2,'Stage1','BN002',str_to_date('15:00','%H:%i:'),str_to_date('17:00','%H:%i:'));

INSERT INTO Performance
VALUES(3,'Stage1','BN003',str_to_date('18:00','%H:%i:'),str_to_date('20:00','%H:%i:'));

INSERT INTO Performance
VALUES(4,'Stage1','BN004',str_to_date('21:00','%H:%i:'),str_to_date('23:00','%H:%i:'));

INSERT INTO Performance
VALUES(5,'Stage2','BN005',str_to_date('15:00','%H:%i:'),str_to_date('17:00','%H:%i:'));

INSERT INTO Performance
VALUES(6,'Stage2','BN002',str_to_date('18:00','%H:%i:'),str_to_date('20:00','%H:%i:'));

INSERT INTO Performance
VALUES(7,'Stage2','BN003',str_to_date('21:00','%H:%i:'),str_to_date('23:00','%H:%i:'));

INSERT INTO Performance
VALUES(8,'Stage3','BN001',str_to_date('18:00','%H:%i:'),str_to_date('20:00','%H:%i:'));

INSERT INTO Performance
VALUES(9,'Stage3','BN002',str_to_date('21:00','%H:%i:'),str_to_date('23:00','%H:%i:'));

Browse

Structure

SQL

Search

Insert

Export

Import

Privileges

✓ Showing rows 0 - 1 (2 total, Query took 0.0003 seconds.)

SELECT * FROM `agent`

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all

Number of rows:

25

 ▾

Filter rows:

Search this table

Sort by key:

None

Extra options

← T →

▼ AgentID

Name

Phone

Address

City

☐

Edit

Copy

Delete

AG001

James Smith

078-4293-2257

89 Manor Way

Great Linford

☐

Edit

Copy

Delete

AG002

Julie McEwen

079-1249-8524

49 Trehafod Road

Buck's Mills

✓ Showing rows 0 - 4 (5 total, Query took 0.0003 seconds.)

`SELECT * FROM `band``

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: | Filter rows: | Sort by key:

Extra options

			BandID	Name	Description	AgentID
<input type="checkbox"/>	Edit	Copy	Delete	BN001	The Killers	recognised as one of the biggest rock acts in the ... AG001
<input type="checkbox"/>	Edit	Copy	Delete	BN002	The Eagles	Factory Records changed the face of British music ... AG002
<input type="checkbox"/>	Edit	Copy	Delete	BN003	Foo Fighters	The mod revival the band helped to spark a whole s... AG002
<input type="checkbox"/>	Edit	Copy	Delete	BN004	Red Hot Chili Peppers	Get It On, Metal Guru and Children Of The Revoluti... AG001
<input type="checkbox"/>	Edit	Copy	Delete	BN005	Guns N Roses	The group released era-defining classics like Para... AG002

`SELECT * FROM `member`;`

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all | Number of rows: | Filter rows: | Sort by key:

Extra options

				MemberID	Name	DOB	Gender	Phone	JobType	BandID
<input type="checkbox"/>	Edit	Copy	Delete	ME001	Jennifer Wilmott	1997-12-15	F	797-577-7666	Drummer	BN001
<input type="checkbox"/>	Edit	Copy	Delete	ME002	Roberto Mace	1996-02-06	M	797-577-7667	Lightman	BN002
<input type="checkbox"/>	Edit	Copy	Delete	ME003	Wayne Hartmore	1998-03-16	M	797-577-7668	Security	BN003
<input type="checkbox"/>	Edit	Copy	Delete	ME004	Graeme Davis	1996-09-14	M	797-577-7669	Beat Boxer	BN004
<input type="checkbox"/>	Edit	Copy	Delete	ME005	Patrick Connor	1997-11-08	F	797-577-7670	Electrician	BN001
<input type="checkbox"/>	Edit	Copy	Delete	ME006	Peter Court	1989-01-04	M	797-577-7671	Drummer	BN002
<input type="checkbox"/>	Edit	Copy	Delete	ME007	Natalie French	1997-02-19	F	797-577-7672	Lightman	BN003
<input type="checkbox"/>	Edit	Copy	Delete	ME008	Josephine Trotter	1995-10-19	F	797-577-7673	Security	BN004
<input type="checkbox"/>	Edit	Copy	Delete	ME009	Trevor Mills	1986-01-01	M	797-577-7674	Beat Boxer	BN005
<input type="checkbox"/>	Edit	Copy	Delete	ME010	Joanna Repetto	1990-09-30	M	797-577-7675	Electrician	BN001
<input type="checkbox"/>	Edit	Copy	Delete	ME011	Michelle Caprice	1997-04-16	M	797-577-7676	Lightman	BN003
<input type="checkbox"/>	Edit	Copy	Delete	ME012	Jackie Matthews	1997-08-05	M	797-577-7677	Security	BN005

[SELECT * FROM `musician`](#)

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all

Number of rows: 25

Filter rows:

Sort by key:

None

Extra options

				MusicianID	Name	NickName	DOB	Genre	BandID
<input type="checkbox"/>				MU101	Richard Molavi	NULL	1992-06-02	Hip Hop	BN001
<input type="checkbox"/>				MU102	Megan Williams	NULL	1993-03-13	Rock	BN002
<input type="checkbox"/>				MU103	William Clifford	NULL	1996-05-12	Hip Hop	BN003
<input type="checkbox"/>				MU104	Robert Meadows	Yardbird	1998-08-26	Rock	BN004
<input type="checkbox"/>				MU105	James Marsh	NULL	1999-04-16	Club	BN005
<input type="checkbox"/>				MU106	James Miles	NULL	1990-05-16	Pop	BN001
<input type="checkbox"/>				MU107	Joseph Sanders	NULL	1997-08-12	Beat	BN002
<input type="checkbox"/>				MU108	Julie Whittaker	The Queen of Soul	1986-11-10	Hip Hop	BN003
<input type="checkbox"/>				MU109	Adrian Davis	NULL	1990-01-19	Beat	BN004
<input type="checkbox"/>				MU110	Linda Yorke	NULL	1986-02-19	Club	BN005
<input type="checkbox"/>				MU111	Fiona Kelso	NULL	1997-07-03	Pop	BN001
<input type="checkbox"/>				MU112	Adrian Marsh	NULL	1988-03-01	Rock	BN002
<input type="checkbox"/>				MU113	Martyn Holmes	NULL	1998-04-25	Hip Hop	BN003
<input type="checkbox"/>				MU114	Marie-Lisa Johannsson	The Fab Four	1997-03-19	Beat	BN004
<input type="checkbox"/>				MU115	Nelson Hadlow	NULL	1991-05-21	Hip Hop	BN005
<input type="checkbox"/>				MU116	John Lugini	The Man in Black	1996-05-04	Pop	BN001
<input type="checkbox"/>				MU117	Ramirez Damatos	NULL	1998-09-28	Rock	BN002
<input type="checkbox"/>				MU118	Kelly Wight	NULL	1999-02-02	Beat	BN003
<input type="checkbox"/>				MU119	George Diamond	The Lizard King	1997-11-15	Beat	BN004
<input type="checkbox"/>				MU120	Joanna Neilson	NULL	1998-03-24	Club	BN005

[SELECT * FROM `performance`](#)

☐ Profiling [\[Edit inline \]](#) [\[Edit \]](#) [\[Explain SQL \]](#) [\[Create PHP code \]](#) [\[Refresh \]](#)

☐ Show all

Number of rows: 25

Filter rows:

Sort by key:

None

Extra options

				PerformanceID	StageNo	BandID	StartTime	MaxTime
<input type="checkbox"/>				1	Stage1	BN001	2022-12-19 12:00:00.000000	2022-12-19 14:00:00.000000
<input type="checkbox"/>				2	Stage1	BN002	2022-12-19 15:00:00.000000	2022-12-19 17:00:00.000000
<input type="checkbox"/>				3	Stage1	BN003	2022-12-19 18:00:00.000000	2022-12-19 20:00:00.000000
<input type="checkbox"/>				4	Stage1	BN004	2022-12-19 21:00:00.000000	2022-12-19 23:00:00.000000
<input type="checkbox"/>				5	Stage2	BN005	2022-12-19 15:00:00.000000	2022-12-19 17:00:00.000000
<input type="checkbox"/>				6	Stage2	BN002	2022-12-19 18:00:00.000000	2022-12-19 20:00:00.000000
<input type="checkbox"/>				7	Stage2	BN003	2022-12-19 21:00:00.000000	2022-12-19 23:00:00.000000
<input type="checkbox"/>				8	Stage3	BN001	2022-12-19 18:00:00.000000	2022-12-19 20:00:00.000000
<input type="checkbox"/>				9	Stage3	BN002	2022-12-19 21:00:00.000000	2022-12-19 23:00:00.000000

`SELECT * FROM `stage``

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: Filter rows:

Extra options

					StageNo	Name	Capacity
<input type="checkbox"/>	Edit	Copy	Delete		Stage1	John Peel Stage	300
<input type="checkbox"/>	Edit	Copy	Delete		Stage2	Marlin Stage	600
<input type="checkbox"/>	Edit	Copy	Delete		Stage3	Great Britain Stage	1200
<input type="checkbox"/>	Edit	Copy	Delete		Stage4	Youth Club Stage	500

2.1 e) View in MySQL

CREATE VIEW AgentJobs

AS

SELECT A.AgentID, COUNT(DISTINCT JobType) AS "DifferentJobs"

FROM Agent A JOIN Band B ON A.AgentID = B.AgentID

JOIN Member M ON B.BandID = M.BandID

GROUP BY A.AgentID

Server: 127.0.0.1 » Database: database_assignment » View: agentjobs

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Export](#) [Privileges](#) [Operations](#)

⚠ Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.

✓ Showing rows 0 - 1 (2 total, Query took 0.0016 seconds.)

```
SELECT * FROM `agentjobs`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: 25 ▾ | Filter rows:

Extra options

AgentID	DifferentJobs
AG001	4
AG002	4

Note:

Read-only view is not supported in MySQL.

2.1 f) Trigger in MySQL

CREATE TABLE tblCountDelete(countDelete INTEGER);

localhost/phpmyadmin/index.php?route=/sql&pos=0&db=database_assignment&table=tblcountdelete

Server: 127.0.0.1 » Database: database_assignment » Table: tblcountdelete

[Browse](#) [Structure](#) [SQL](#) [Search](#) [Insert](#) [Export](#) [Import](#) [Privileges](#) [Operations](#)

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

```
SELECT * FROM `tblcountdelete`
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

countDelete

Query results operations

[Create view](#)

Screen shot of tblCountDelete before removing any job records

CREATE TRIGGER `TRG_Agent` BEFORE DELETE ON `agent` FOR EACH ROW BEGIN

```
DECLARE Found INTEGER;

SELECT COUNT(*) INTO Found FROM tblcountdelete;

IF Found <= 0 THEN

    INSERT INTO tblcountdelete VALUES(1);

ELSE

    UPDATE tblcountdelete

    SET countDelete = countDelete + 1;

END IF;

END
```

2.1 g) SQL to add 2 Dummy data in Agent

```
INSERT INTO AGENT(AgentID) VALUES('AG000');
INSERT INTO AGENT(AgentID) VALUES('AG999');
```

2.1 h) Removing the 2 dummy Data from Agent

```
DELETE FROM AGENT WHERE AgentID = 'AG000';
DELETE FROM AGENT WHERE AgentID = 'AG999';
```


2.1 i) Check if trigger is working or not


View the table tblCountDelete:


```
select * from tblCountDelete
```


←


Server: 127.0.0.1 » Database: database_assignment » Table: tblcountdelete


 Browse


 Structure


 SQL


 Search

 Insert

 Export

 Import

 Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete feature

 Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

SELECT * FROM `tblcountdelete`

☐ Profiling

[\[Edit inline \]](#)

[\[Edit \]](#)

[\[Explain SQL \]](#)

[\[Create PHP code \]](#)

[\[Refresh \]](#)

☐ Show all

Number of rows: 25 ▾

Filter rows:

Extra options

countDelete

2