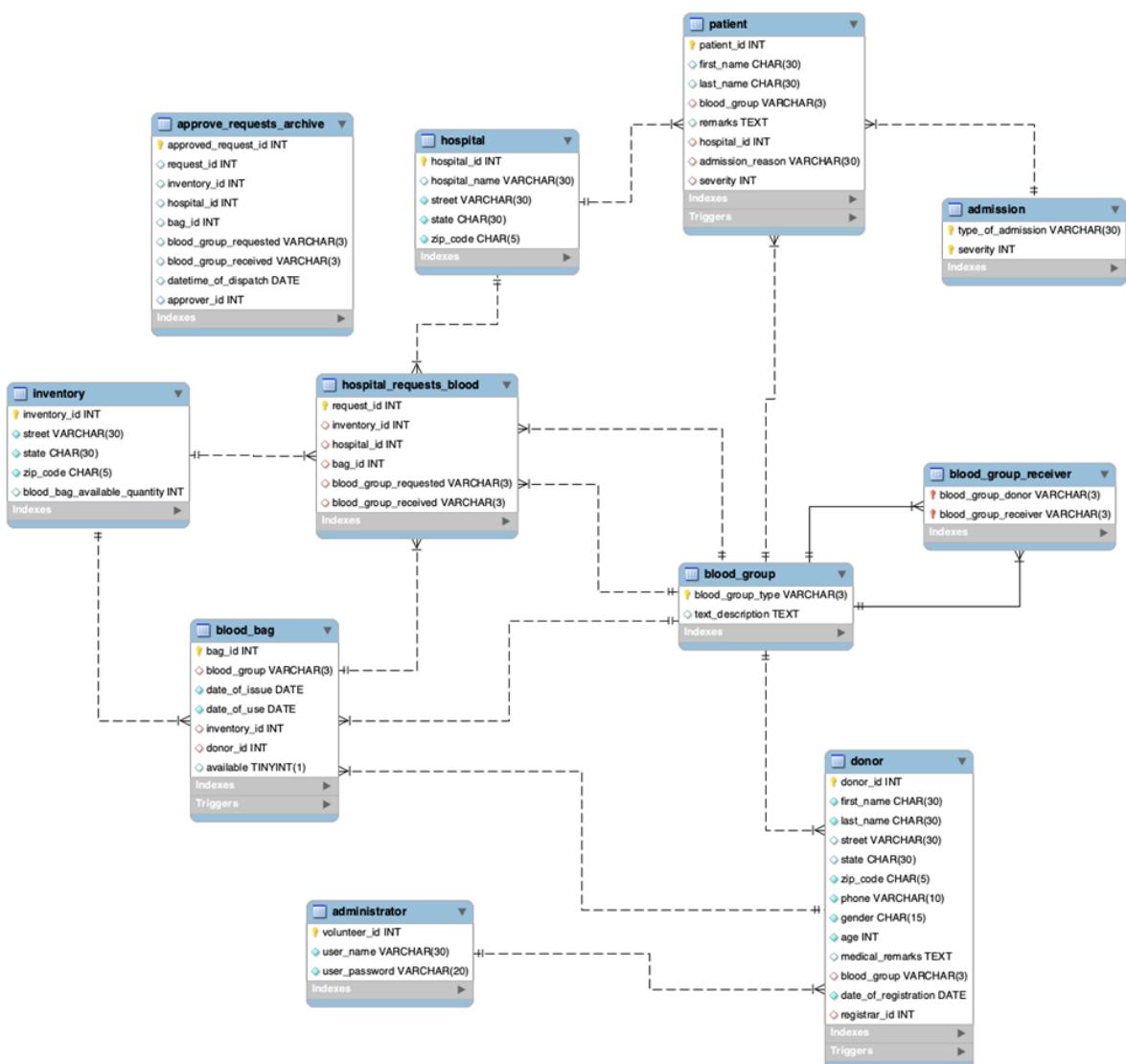


CS 5200 Hands-on Exercise

[50pt] Database Implementation



| administrator-to-donor Relationship | | |
|-------------------------------------|---|---|
| Administrator Is Required Parent | Action on Administrator (Parent) | Action on Donor (Child) |
| Insert | Get a child. Else, prohibit. | Get an Parent. Else, Prohibit |
| Modify Key OR Foreign Key | Prohibit. Administrator used the surrogate Key. | Prohibit. Administrator used the surrogate key. |
| Delete | Prohibit. Administrator should not be modified after being inserted | Prohibit. Donor should not be modified after being inserted |

| donor-to-blood_bag Relationship | | |
|---------------------------------|--|--|
| blood_bag Is Required Parent | Action on Donor | Action on BloodBag |
| Insert | Get a child. Else, prohibit. | Get a parent. Else, prohibit. |
| Modify Key OR Foreign Key | Prohibit. Donor used the surrogate Key. | Prohibit. Donor used the surrogate Key. |
| Delete | Prohibit. The medical history for each donor should never be deleted | Prohibit. The medical history for each donor should never be deleted |

| blood_group-to-donor Relationship | | |
|-----------------------------------|---|--|
| Donor Is Required Parent | Action on Admin (Parent) | Action on Donor (Child) |
| Insert | Get a child. Else, prohibit. | Get an Parent. Else, Prohibit |
| Modify Key OR Foreign Key | Prohibit. Admin used the surrogate Key. | Prohibit. Admin used the surrogate key. |
| Delete | Prohibit. Admin should not be modified after being inserted | Prohibit. The medical history for each donor should never be deleted |

| blood_group to blood_bag Relationship | | |
|---------------------------------------|--|--|
| Blood_group Is Required Parent | Action on Blood_group | Action on BloodBag |
| Insert | Get a child. Else, prohibit. | Get a parent. Else, prohibit. |
| Modify Key OR Foreign Key | Prohibit. Blood_group and its description should be fixed. | Prohibit. Blood_group information for a blood_bag should never change. |
| Delete | Prohibit. The medical history for each patient should never be deleted | Prohibit. The medical history for each patient should never be deleted |

| blood_bag-to-hospital_requests_blood Relationship | | |
|---|--|--|
| Blood_bag Is Required Parent | Action on Blood_bag | Action on Hospital_requests_blood |
| Insert | Get a child. Else, prohibit. | Get a parent. Else, prohibit. |
| Modify Key OR Foreign Key | Prohibit. Blood_bag used the surrogate Key. | Prohibit. Blood_bag used the surrogate Key. |
| Delete | Prohibit. The medical history for each patient should never be deleted | Prohibit. The medical history for each patient should never be deleted |

| blood_group-to-hospital_requests_blood Relationship | | |
|---|--|--|
| hospital_requests_blood Is Required Parent | Action on Blood_group | Action on Hospital_requests_blood |
| Insert | Get a child. Else, prohibit. | Get a parent. Else, prohibit. |
| Modify Key OR Foreign Key | Prohibit. Blood_group used the surrogate Key. | Prohibit. Hospital_requests_blood used the surrogate Key. |
| Delete | Prohibit. The medical history for each patient should never be deleted | Prohibit. The medical history for each patient should never be deleted |

| Hospital-to-patient Relationship | | |
|----------------------------------|--|--|
| hospital Is Required Parent | Action on hospital | Action on Patient |
| Insert | Get a child. Else, prohibit. | Get a parent. Else, prohibit. |
| Modify Key OR Foreign Key | Prohibit. hospital used the surrogate Key. | Prohibit. hospital used the surrogate Key. |
| Delete | Prohibit. The medical history for each patient should never be deleted | Prohibit. The medical history for each patient should never be deleted |

| inventory-to-blood_bag Relationship | | |
|-------------------------------------|---|--|
| Inventory Is Required Parent | Action on Inventory | Action on BloodBag |
| Insert | Get a child. Else, prohibit. | Get a parent. Else, prohibit. |
| Modify Key OR Foreign Key | Prohibit. Inventory used the surrogate key. | Prohibit. Inventory used the surrogate key. |
| Delete | Prohibit. Inventory should not be modified after being inserted | Prohibit. The medical history for each patient should never be deleted |

| hospital-to-hospital_requests_blood Relationship | | |
|--|--|--|
| Hospital Is Required Parent | Action on Hospital | Action on Hospital_requests_blood |
| Insert | Get a child. Else, prohibit. | Get a parent. Else, prohibit. |
| Modify Key OR Foreign Key | Prohibit. Hospital used the surrogate Key. | Prohibit. Hospital used the surrogate Key. |
| Delete | Prohibit. The medical history for each patient should never be deleted | Prohibit. The medical history for each patient should never be deleted |

| inventory-to-hospital_requests_blood Relationship | | |
|---|--|--|
| Inventory Is Required Parent | Action on Inventory | Action on Hospital_requests_blood |
| Insert | Get a child. Else, prohibit. | Get a parent. Else, prohibit. |
| Modify Key OR Foreign Key | Prohibit. Inventory used the surrogate Key. | Prohibit. Inventory used the surrogate Key. |
| Delete | Prohibit. The medical history for each patient should never be deleted | Prohibit. The medical history for each patient should never be deleted |

| blood_group-to-patient Relationship | | |
|-------------------------------------|--|--|
| Blood_group Is Required Parent | Action on Blood_group | Action on Patient |
| Insert | Get a parent. Else, prohibit. | Get a child. Else, prohibit. |
| Modify Key OR Foreign Key | Prohibit. Blood_group used the surrogate Key. | Prohibit. Blood_group used the surrogate Key. |
| Delete | Prohibit. The medical history for each patient should never be deleted | Prohibit. The medical history for each patient should never be deleted |

| admission-to-patient Relationship | | |
|-----------------------------------|--|--|
| Admission Is Required Parent | Action on Admission | Action on Patient |
| Insert | Get a parent. Else, prohibit. | Get a child. Else, prohibit. |
| Modify Key OR Foreign Key | If not last parent, cascade update. Else, prohibit. | If not last child, cascade update. Else, prohibit. |
| Delete | Prohibit. The medical history for each patient should never be deleted | Prohibit. The medical history for each patient should never be deleted |

| blood_group-to-blood_group_receiver Relationship | | |
|--|--|--|
| Blood_group Is Required Parent | Action on Blood_group | Action on Blood_group_receiver |
| Insert | Get a parent. Else, prohibit. | Get a child. Else, prohibit. |
| Modify Key OR Foreign Key | Prohibit. The blood group should never change. | Prohibit. The blood group should never change. |

| | | |
|--------|---|---|
| Delete | Prohibit. The blood group should never change. | Prohibit. The blood group should never change. |
|--------|---|---|

Table creating part:

Run SQL query/queries on database hnsn3:

```

1 CREATE TABLE administrator (
2   VolunteerID Int NOT NULL AUTO_INCREMENT,
3   UserName VARCHAR(30) NOT NULL,
4   UserPassword VARCHAR(20) NOT NULL,
5   CONSTRAINT PK_ADMIN PRIMARY KEY(VolunteerID),
6   CONSTRAINT AK_ADMIN UNIQUE(UserName)
7 )ENGINE=InnoDB AUTO_INCREMENT = 1;

```

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

[CREATE_TABLE](#) administrator (VolunteerID Int NOT NULL AUTO_INCREMENT, UserName VARCHAR(30) NOT NULL, UserPassword VARCHAR(20) NOT NULL, CONSTRAINT PK_ADMIN PRIMARY KEY(VolunteerID), CONSTRAINT AK_ADMIN UNIQUE(UserName))ENGINE=InnoDB AUTO_INCREMENT = 1;

[Edit inline](#) [Edit](#) [Create PHP code](#)

Warning: #1280 Name 'PK_ADMIN' ignored for PRIMARY key.

Run SQL query/queries on database hnsn3:

```

1 CREATE TABLE blood_group (
2   BloodGroupType VARCHAR(3) NOT NULL,
3   TextDescription TEXT DEFAULT NULL,
4   CONSTRAINT PK_BG PRIMARY KEY(BloodGroupType),
5   CONSTRAINT BG_Domain CHECK (BloodGroupType IN ('A+', 'A-', 'B+', 'B-', 'O+', 'O-', 'AB+', 'AB-') )
6 );

```

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

[CREATE_TABLE](#) blood_group (BloodGroupType VARCHAR(3) NOT NULL, TextDescription TEXT DEFAULT NULL, CONSTRAINT PK_BG PRIMARY KEY(BloodGroupType), CONSTRAINT BG_Domain CHECK (BloodGroupType IN ('A+', 'A-', 'B+', 'B-', 'O+', 'O-', 'AB+', 'AB-')));

[Edit inline](#) [Edit](#) [Create PHP code](#)

Warning: #1280 Name 'PK_BG' ignored for PRIMARY key.

Run SQL query/queries on database hnsn3:

```

1 CREATE TABLE blood_group_receiver (
2   BloodGroupDonor VARCHAR(3) NOT NULL,
3   BloodGroupReceiver VARCHAR(3) NOT NULL,
4   CONSTRAINT PK_BGR PRIMARY KEY (BloodGroupDonor, BloodGroupReceiver),
5   CONSTRAINT BG_FK1 FOREIGN KEY (BloodGroupDonor) REFERENCES blood_group(BloodGroupType)
6   ON UPDATE NO ACTION
7   ON DELETE NO ACTION,
8   CONSTRAINT BG_FK2 FOREIGN KEY (BloodGroupReceiver) REFERENCES blood_group(BloodGroupType)
9   ON UPDATE NO ACTION
10  ON DELETE NO ACTION
11 );

```

Show query box

Recent Favorites

Show query box

```
MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)
```

```
CREATE TABLE blood_group_receiver ( BloodGroupDonor VARCHAR(3) NOT NULL, BloodGroupReceiver VARCHAR(3) NOT NULL, CONSTRAINT PK_BGR PRIMARY KEY (BloodGroupDonor, BloodGroupReceiver), CONSTRAINT BG_FK1 FOREIGN KEY (BloodGroupDonor) REFERENCES blood_group(BloodGroupType) ON UPDATE NO ACTION ON DELETE NO ACTION, CONSTRAINT BG_FK2 FOREIGN KEY (BloodGroupReceiver) REFERENCES blood_group(BloodGroupType) ON UPDATE NO ACTION ON DELETE NO ACTION );
```

[Edit inline] [Edit] [Create PHP code]

Warning: #1280 Name 'PK_BGR' ignored for PRIMARY key.

Recent Favorites

Run SQL query/queries on database hnsn3:

```
1 CREATE TABLE donor ( -- add trigger
2   DonorID INT NOT NULL AUTO_INCREMENT,
3   FirstName CHAR(30) NOT NULL,
4   LastName CHAR(30) NOT NULL,
5   Street VARCHAR(30) DEFAULT NULL,
6   State CHAR(30) DEFAULT NULL,
7   ZipCode CHAR(5) NOT NULL,
8   Phone VARCHAR(10) NOT NULL,
9   Gender CHAR(15) NOT NULL,
10  Age Int NOT NULL,
11  MedicalRemarks TEXT DEFAULT NULL,
12  BloodGroup VARCHAR(3) NOT NULL,
13  DateOfRegistration DATE NOT NULL,
14  RegistrarID Int NOT NULL,
15  CONSTRAINT PK_DNR PRIMARY KEY (DonorID),
16  CONSTRAINT AK_DNR UNIQUE(Phone),
17  CONSTRAINT Valid_Age CHECK (Age > 0 AND Age < 100),
18  CONSTRAINT BG_FK FOREIGN KEY (BloodGroup) REFERENCES blood_group(BloodGroupType)
19  ON UPDATE NO ACTION,
20  ON DELETE NO ACTION,
21  CONSTRAINT ADMN_FK FOREIGN KEY (RegistrarID) REFERENCES administrator(VolunteerID)
```

Recent Favorites

Show query box

```
6   State CHAR(30) DEFAULT NULL,
7   ZipCode CHAR(5) NOT NULL,
8   Phone VARCHAR(10) NOT NULL,
9   Gender CHAR(15) NOT NULL,
10  Age Int NOT NULL,
11  MedicalRemarks TEXT DEFAULT NULL,
12  BloodGroup VARCHAR(3) NOT NULL,
13  DateOfRegistration DATE NOT NULL,
14  RegistrarID Int NOT NULL,
15  CONSTRAINT PK_DNR PRIMARY KEY (DonorID),
16  CONSTRAINT AK_DNR UNIQUE(Phone),
17  CONSTRAINT Valid_Age CHECK (Age > 0 AND Age < 100),
18  CONSTRAINT BG_FK FOREIGN KEY (BloodGroup) REFERENCES blood_group(BloodGroupType)
19  ON UPDATE NO ACTION,
20  ON DELETE NO ACTION,
21  CONSTRAINT ADMN_FK FOREIGN KEY (RegistrarID) REFERENCES administrator(VolunteerID)
22  ON UPDATE NO ACTION
23  ON DELETE NO ACTION
24 )ENGINE=InnoDB AUTO_INCREMENT = 11;
```

Recent Favorites

Show query box

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

```
CREATE TABLE donor ( -- add trigger DonorID INT NOT NULL AUTO_INCREMENT, FirstName CHAR(30) NOT NULL, LastName CHAR(30) NOT NULL, Street VARCHAR(30) DEFAULT NULL, State CHAR(30) DEFAULT NULL, ZipCode CHAR(5) NOT NULL, Phone VARCHAR(10) NOT NULL, Gender CHAR(15) NOT NULL, Age Int NOT NULL, MedicalRemarks TEXT DEFAULT NULL, BloodGroup VARCHAR(3) NOT NULL, DateOfRegistration DATE NOT NULL, RegistrarID Int NOT NULL, CONSTRAINT PK_DNR PRIMARY KEY (DonorID), CONSTRAINT AK_DNR UNIQUE(Phone), CONSTRAINT Valid_Age CHECK (Age > 0 AND Age < 100), CONSTRAINT BG_FK FOREIGN KEY (BloodGroup) REFERENCES blood_group(BloodGroupType) ON UPDATE NO ACTION ON DELETE NO ACTION, CONSTRAINT ADMN_FK FOREIGN KEY (RegistrarID) REFERENCES administrator(VolunteerID) ON UPDATE NO ACTION ON DELETE NO ACTION );
```

[Edit inline] [Edit] [Create PHP code]

Warning: #1280 Name 'PK_DNR' ignored for PRIMARY key.

Recent Favorites

- New
- bds
- hnsn3**
 - New
 - administrator
 - blood_group
 - blood_group_receiver
 - donor
 - information_schema
 - Views
- mysql
- performance_schema
- phpmyadmin
- test

Run SQL query/queries on database **hnsn3**:

```

1 CREATE TABLE inventory (
2   InventoryID INT NOT NULL AUTO_INCREMENT,
3   Street VARCHAR(30) NOT NULL,
4   State CHAR(30) NOT NULL,
5   ZipCode CHAR(5) NOT NULL,
6   BloodBagQtn Int NULL,
7   CONSTRAINT PK_INVNTRY PRIMARY KEY(InventoryID),
8   CONSTRAINT Valid_BloodBagQtn CHECK (BloodBagQtn > -1)
9 )ENGINE=InnoDB AUTO_INCREMENT = 31;

```

Recent Favorites

- New
- bds
- hnsn3**
 - New
 - administrator
 - blood_group
 - blood_group_receiver
 - donor
 - inventory
 - information_schema
 - Views
- mysql

Show query box

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0006 seconds.)

```
CREATE TABLE inventory ( InventoryID INT NOT NULL AUTO_INCREMENT, Street VARCHAR(30) NOT NULL, State CHAR(30) NOT NULL, ZipCode CHAR(5) NOT NULL, BloodBagQtn Int NULL, CONSTRAINT PK_INVNTRY PRIMARY KEY(InventoryID), CONSTRAINT Valid_BloodBagQtn CHECK (BloodBagQtn > -1) )ENGINE=InnoDB AUTO_INCREMENT = 31;
```

[Edit inline] [Edit] [Create PHP code]

Warning: #1280 Name 'PK_INVNTRY' ignored for PRIMARY key.

Recent Favorites

- New
- bds
- hnsn3**
 - New
 - administrator
 - blood_group
 - blood_group_receiver
 - donor
 - inventory
 - information_schema
 - Views
- mysql
- performance_schema
- phpmyadmin
- test

Run SQL query/queries on database **hnsn3**:

```

1 CREATE TABLE blood_bag ( -- add trigger
2   BagID INT NOT NULL AUTO_INCREMENT,
3   BLoodGroup VARCHAR(3) NOT NULL,
4   DateOfIssue DATE NOT NULL,
5   DateOfuse DATE NOT NULL,
6   InventoryID INT NOT NULL,
7   DonorID INT NOT NULL,
8   Available TINYINT(1) NOT NULL DEFAULT 1,
9   CONSTRAINT PK_BB PRIMARY KEY(BagID),
10  CONSTRAINT FK1_BB FOREIGN KEY (BLoodGroup) REFERENCES blood_group(BloodGroupType)
11  ON UPDATE NO ACTION
12  ON DELETE NO ACTION,
13  CONSTRAINT FK2_BB FOREIGN KEY (InventoryID) REFERENCES inventory(InventoryID)
14  ON UPDATE NO ACTION
15  ON DELETE NO ACTION,
16  CONSTRAINT FK3_BB FOREIGN KEY (DonorID) REFERENCES donor(DonorID)
17  ON UPDATE NO ACTION
18  ON DELETE NO ACTION,
19  CONSTRAINT Date_Check CHECK (DateOfuse > DateOfIssue),
20  CONSTRAINT Valid_AVL CHECK (Available = 1 OR Available = 0)
21 )ENGINE=InnoDB AUTO_INCREMENT = 51;

```

Show query box

```

CREATE TABLE blood_bag ( -- add trigger BagID INT NOT NULL AUTO_INCREMENT, BloodGroup VARCHAR(3) NOT NULL, DateOfIssue DATE NOT NULL, DateOfUse DATE NOT NULL, InventoryID INT NOT NULL, DonorID INT NOT NULL, Available TINYINT(1) NOT NULL DEFAULT 1, CONSTRAINT PK_BB PRIMARY KEY(BagID), CONSTRAINT FK1_BB FOREIGN KEY (BloodGroup) REFERENCES blood_group(BloodGroupType) ON UPDATE NO ACTION ON DELETE NO ACTION, CONSTRAINT FK2_BB FOREIGN KEY (InventoryID) REFERENCES inventory(InventoryID) ON UPDATE NO ACTION ON DELETE NO ACTION, CONSTRAINT FK3_BB FOREIGN KEY (DonorID) REFERENCES donor(DonorID) ON UPDATE NO ACTION ON DELETE NO ACTION, CONSTRAINT Date_Check CHECK (DateOfuse > DateOfIssue), CONSTRAINT Valid_AVL CHECK (Available = 1 OR Available = 0 )ENGINE=InnoDB
[ Edit inline ] [ Edit ] [ Create PHP code ]

Warning: #1280 Name 'PK_BB' ignored for PRIMARY key.

```

Run SQL query/queries on database hnsn3:

```

CREATE TABLE hospital (
    HospitalID INT NOT NULL AUTO_INCREMENT,
    HospitalName VARCHAR(30) NULL,
    Street VARCHAR(30) NOT NULL,
    State CHAR(30) NOT NULL,
    ZipCode CHAR(5) NOT NULL,
    CONSTRAINT PK_HSPTL PRIMARY KEY(HospitalID),
    CONSTRAINT AK_HSPTL UNIQUE(HospitalName)
)ENGINE=InnoDB AUTO_INCREMENT = 71;

```

Show query box

```

CREATE TABLE hospital ( HospitalID INT NOT NULL AUTO_INCREMENT, HospitalName VARCHAR(30) NULL, Street VARCHAR(30) NOT NULL, State CHAR(30) NOT NULL, ZipCode CHAR(5) NOT NULL, CONSTRAINT PK_HSPTL PRIMARY KEY(HospitalID), CONSTRAINT AK_HSPTL UNIQUE(HospitalName) )ENGINE=InnoDB AUTO_INCREMENT = 71;
[ Edit inline ] [ Edit ] [ Create PHP code ]

Warning: #1280 Name 'PK_HSPTL' ignored for PRIMARY key.

```

Show query box

```

CREATE TABLE hospital_requests_blood (
    RequestID INT NOT NULL AUTO_INCREMENT,
    InventoryID INT NOT NULL,
    HospitalID INT NOT NULL,
    BagID INT NOT NULL,
    BloodGroupReq VARCHAR(3) NOT NULL,
    BloodGroupRec VARCHAR(3) NOT NULL,
    CONSTRAINT PK_HRB PRIMARY KEY(RequestID),
    CONSTRAINT Req_BG_FK1 FOREIGN KEY (BloodGroupReq) REFERENCES blood_group(BloodGroupType)
    ON UPDATE NO ACTION
    ON DELETE NO ACTION,
    CONSTRAINT Req_BG_FK2 FOREIGN KEY (BloodGroupRec) REFERENCES blood_group(BloodGroupType)
    ON UPDATE NO ACTION
    ON DELETE NO ACTION,
    CONSTRAINT INVNTRY_FK1 FOREIGN KEY (InventoryID) REFERENCES inventory(InventoryID)
    ON UPDATE NO ACTION
    ON DELETE NO ACTION,
    CONSTRAINT HSPTL_FK1 FOREIGN KEY (HospitalID) REFERENCES hospital(HospitalID)
    ON UPDATE NO ACTION
    ON DELETE NO ACTION,
    CONSTRAINT BB_FK1 FOREIGN KEY (BagID) REFERENCES blood_bag(BagID)
    ON UPDATE NO ACTION
    ON DELETE NO ACTION
)ENGINE=InnoDB AUTO_INCREMENT = 121;

```

Recent Favorites

Show query box

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

```
CREATE TABLE hospital_requests_blood ( RequestID INT NOT NULL AUTO_INCREMENT, InventoryID INT NOT NULL, HospitalID INT NOT NULL, BagID INT NOT NULL, BloodGroupReq VARCHAR(3) NOT NULL, BloodGroupRec VARCHAR(3) NOT NULL, CONSTRAINT PK_HRB PRIMARY KEY(RequestID), CONSTRAINT Req_BG_FK1 FOREIGN KEY (BloodGroupReq) REFERENCES blood_group(BloodGroupType) ON UPDATE NO ACTION ON DELETE NO ACTION, CONSTRAINT Req_BG_FK2 FOREIGN KEY (BloodGroupRec) REFERENCES blood_group(BloodGroupType) ON UPDATE NO ACTION ON DELETE NO ACTION, CONSTRAINT INVNTRY_FK1 FOREIGN KEY (InventoryID) REFERENCES inventory(InventoryID) ON UPDATE NO ACTION ON DELETE NO ACTION, CONSTRAINT HSPTL_FK1 FOREIGN KEY (HospitalID) REFERENCES hospital(HospitalID) ON UPDATE NO ACTION ON DELETE NO ACTION ) ENGINE=InnoDB;
```

[Edit]

Warning: #1280 Name 'PK_HRB' ignored for PRIMARY key.

Recent Favorites

Create Table admission

```
1 CREATE TABLE admission (
2     TypeOfAdmission VARCHAR(30) NOT NULL,
3     Serverity INT NOT NULL,
4     CONSTRAINT PK ADM PRIMARY KEY (TypeOfAdmission, Serverity),
5     CONSTRAINT Valid_Serverity CHECK (Serverity >= 0 AND Serverity < 7) -- AIS
6 )ENGINE=InnoDB;
```

Recent Favorites

Create Table patient

```
3 CONSTRAINT Valid_Serverity CHECK (Serverity >= 0 AND Serverity < 7) -- AIS
4
5 )ENGINE=InnoDB;
6
7
8 CREATE TABLE patient ( -- add trigger
9     PatientID INT NOT NULL AUTO_INCREMENT,
10    FirstName CHAR(30) NULL,
11    LastName CHAR(30) NULL,
12    BloodGroup VARCHAR(3) NOT NULL,
13    Remarks TEXT DEFAULT NULL,
14    HospitalID Int NOT NULL,
15    AdmissionReason VARCHAR(30) NOT NULL,
16    Serverity Int NOT NULL,
17    CONSTRAINT PK_PNT PRIMARY KEY(PatientID),
18    CONSTRAINT Pntn_BG_FK1 FOREIGN KEY (BloodGroup) REFERENCES blood_group(BloodGroupType)
19    ON UPDATE NO ACTION
20    ON DELETE NO ACTION,
21    CONSTRAINT ADM_FK1 FOREIGN KEY (AdmissionReason, Serverity) REFERENCES admission(TypeOfAdmission, Serverity)
22    ON UPDATE CASCADE
23    ON DELETE CASCADE,
24    CONSTRAINT Pntn_HSPTL_FK1 FOREIGN KEY (HospitalID) REFERENCES hospital(HospitalID)
25    ON UPDATE NO ACTION
26    ON DELETE NO ACTION
27 )ENGINE=InnoDB AUTO_INCREMENT = 91;
```

Recent Favorites

Show query box

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

```
CREATE TABLE admission ( TypeOfAdmission VARCHAR(30) NOT NULL, Serverity INT NOT NULL, CONSTRAINT PK ADM PRIMARY KEY (TypeOfAdmission, Serverity), CONSTRAINT Valid_Serverity CHECK (Serverity >= 0 AND Serverity < 7) -- AIS )ENGINE=InnoDB;
```

[Edit inline] [Edit] [Create PHP code]

Warning: #1280 Name 'PK ADM' ignored for PRIMARY key.

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

```
CREATE TABLE patient ( -- add trigger PatientID INT NOT NULL AUTO_INCREMENT, FirstName CHAR(30) NULL, LastName CHAR(30) NULL, BloodGroup VARCHAR(3) NOT NULL, Remarks TEXT DEFAULT NULL, HospitalID Int NOT NULL, AdmissionReason VARCHAR(30) NOT NULL, Serverity Int NOT NULL, CONSTRAINT PK_PNT PRIMARY KEY(PatientID), CONSTRAINT Pntn_BG_FK1 FOREIGN KEY (BloodGroup) REFERENCES blood_group(BloodGroupType) ON UPDATE NO ACTION ON DELETE NO ACTION, CONSTRAINT ADM_FK1 FOREIGN KEY (AdmissionReason, Serverity) REFERENCES admission(TypeOfAdmission, Serverity) ON UPDATE CASCADE ON DELETE CASCADE, CONSTRAINT Pntn_HSPTL_FK1 FOREIGN KEY (HospitalID) REFERENCES hospital(HospitalID) ON UPDATE NO ACTION ON DELETE NO ACTION )ENGINE=InnoDB AUTO_INCREMENT = 91;
```

[Edit inline] [Edit] [Create PHP code]

Warning: #1280 Name 'PK_PNT' ignored for PRIMARY key.

The screenshot shows the MySQL Workbench interface. On the left is a tree view of database schemas: 'New', 'bds', 'hnsn3' (which contains 'New', 'administrator', 'admission', 'blood_bag', 'blood_group', 'blood_group_receiver', 'donor', 'hospital', 'hospital_requests_blood', 'inventory', 'patient'), 'information_schema', and 'Views'. The main pane displays the SQL code for creating the 'approve_requests_archive' table:

```

1 CREATE TABLE approve_requests_archive (
2     ApprovedRequestID INT NOT NULL AUTO_INCREMENT,
3     RequestID INT NULL,
4     InventoryID INT NULL,
5     HospitalID INT NULL,
6     BagID INT NULL,
7     BLoodGroupReq VARCHAR(3) NULL,
8     BLoodGroupRec VARCHAR(3) NULL,
9     DatetimeOfDispatch Date NULL,
10    ApproverID INT NULL,
11    CONSTRAINT PK_ARA PRIMARY KEY(ApprovedRequestID)
12 )ENGINE=InnoDB AUTO_INCREMENT = 151;

```

Below the code are buttons for 'Clear', 'Format', and 'Get auto-saved query'.

The screenshot shows the MySQL Workbench interface after running the creation query. The tree view on the left is identical to the previous screenshot. The main pane shows the results of the query:

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

```
CREATE_TABLE approve_requests_archive ( ApprovedRequestID INT NOT NULL AUTO_INCREMENT, RequestID INT NULL, InventoryID INT NULL, HospitalID INT NULL, BagID INT NULL, BLoodGroupReq VARCHAR(3) NULL, BLoodGroupRec VARCHAR(3) NULL, DatetimeOfDispatch Date NULL, ApproverID INT NULL, CONSTRAINT PK_ARA PRIMARY KEY(ApprovedRequestID) )ENGINE=InnoDB AUTO_INCREMENT = 151;
```

Below the results, there is a warning message: "Warning: #1280 Name 'PK_ARA' ignored for PRIMARY key." There are also buttons for '[Edit inline]', '[Edit]', and '[Create PHP code]'.

Insertion Part:

The screenshot shows the MySQL Workbench interface. The tree view on the left includes 'mysql' and 'performance_schema' under 'information_schema'. The main pane displays the SQL code for inserting data into the 'administrator' table:

```

1 INSERT INTO administrator (UserName, UserPassword) VALUES
2 ('user1', 'password1'),
3 ('user2', 'password2'),
4 ('user3', 'password3'),
5 ('user4', 'password4'),
6 ('user5', 'password5'),
7 ('user6', 'password6'),
8 ('user7', 'password7'),
9 ('user8', 'password8'),
10 ('user9', 'password9'),
11 ('user10', 'password10');

```

Below the code are buttons for 'Clear', 'Format', and 'Get auto-saved query'. A checkbox for 'Bind parameters' is also present. At the bottom, there is a 'Console' input field with the placeholder 'this SQL query:'.

Recent Favorites

Show query box

✓ 10 rows inserted.
Inserted row id: 10 (Query took 0.0016 seconds.)

```
INSERT INTO administrator (UserName, UserPassword) VALUES ('user1', 'password1'), ('user2', 'password2'), ('user3', 'password3'), ('user4', 'password4'), ('user5', 'password5'), ('user6', 'password6'), ('user7', 'password7'), ('user8', 'password8'), ('user9', 'password9'), ('user10', 'password10');
```

[Edit inline] [Edit] [Create PHP code]

Recent Favorites

Run SQL query/queries on database hnsn3: ⚡

```
1 INSERT INTO blood_group (BloodGroupType, TextDescription) VALUES
2 ('A+', 'positive A'),
3 ('A-', 'negative A'),
4 ('B+', 'positive B'),
5 ('B-', 'negative B'),
6 ('O+', 'positive O'),
7 ('O-', 'negative O'),
8 ('AB+', 'positive AB'),
9 ('AB-', 'negative AB');
```

Recent Favorites

Show query box

✓ 8 rows inserted. (Query took 0.0017 seconds.)

```
INSERT INTO blood_group (BloodGroupType, TextDescription) VALUES ('A+', 'positive A'), ('A-', 'negative A'), ('B+', 'positive B'), ('B-', 'negative B'), ('O+', 'positive O'), ('O-', 'negative O'), ('AB+', 'positive AB'), ('AB-', 'negative AB');
```

[Edit inline] [Edit] [Create PHP code]

Recent Favorites

Run SQL query/queries on table hnsn3.administrator: ⚡

```
1 INSERT INTO blood_group_receiver (BloodGroupDonor, BloodGroupReceiver) VALUES
2 ('A+', 'A+'),
3 ('A-', 'A+'),
4 ('B+', 'A-'),
5 ('B-', 'O+'),
6 ('O+', 'AB-'),
7 ('O-', 'B+'),
8 ('AB+', 'O-'),
9 ('AB-', 'A-'),
10 ('A+', 'AB+'),
11 ('A-', 'O-');
```

SELECT * | SELECT | INSERT | UPDATE | DELETE | Clear | Format | Get auto-saved query

Recent Favorites

Show query box

10 rows inserted. (Query took 0.0019 seconds.)

```
INSERT INTO blood_group_receiver (BloodGroupDonor, BloodGroupReceiver) VALUES ('A+', 'A+'), ('A-', 'A+'), ('B+', 'A-'), ('B-', 'O+'), ('O+', 'AB-'), ('O-', 'B+'), ('AB+', 'O-'), ('AB-', 'A-'), ('A+', 'AB+'), ('A-', 'O-');
```

[Edit inline] [Edit] [Create PHP code]

Recent Favorites

Run SQL query/queries on table hnsn3.administrator:

```
1 INSERT INTO donor (FirstName, LastName, Street, State, ZipCode, Phone, Gender, Age, MedicalRemarks, BloodGroup, DateOfRegistration, RegistrantID) VALUES
2 ('John', 'Doe', '123 Main St', 'California', '90210', '1234567890', 'Male', 25, 'None', 'A+', '2023-01-01', 1),
3 ('Jane', 'Smith', '456 Oak St', 'New York', '10001', '9876543210', 'Female', 30, 'Allergic to penicillin', 'B-', '2023-01-02', 2),
4 ('Mike', 'Johnson', '789 Pine St', 'Texas', '75001', '5551234567', 'Male', 40, 'None', 'O+', '2023-01-03', 3),
5 ('Sara', 'Williams', '101 Cedar St', 'Florida', '33101', '7890123456', 'Female', 28, 'High blood pressure', 'AB+', '2023-01-04', 4),
6 ('David', 'Brown', '202 Elm St', 'Ohio', '44101', '3210987654', 'Male', 35, 'None', 'B+', '2023-01-05', 5),
7 ('Emily', 'Davis', '303 Maple St', 'Illinois', '60601', '2345678901', 'Female', 22, 'None', 'O-', '2023-01-06', 6),
8 ('Chris', 'Jones', '404 Birch St', 'Georgia', '30301', '8765432109', 'Male', 45, 'Diabetic', 'A-', '2023-01-07', 7),
9 ('Olivia', 'Taylor', '505 Walnut St', 'Michigan', '48201', '1357924680', 'Female', 32, 'None', 'AB-', '2023-01-08', 8),
10 ('Daniel', 'Miller', '606 Spruce St', 'Washington', '98101', '9870123456', 'Male', 27, 'None', 'A+', '2023-01-09', 9),
11 ('Mia', 'Lee', '707 Fir St', 'Arizona', '85001', '8765432101', 'Female', 38, 'None', 'O+', '2023-01-10', 10);
```

Console

Show query box

10 rows inserted.

Inserted row id: 20 (Query took 0.0002 seconds.)

```
INSERT INTO donor (FirstName, LastName, Street, State, ZipCode, Phone, Gender, Age, MedicalRemarks, BloodGroup, DateOfRegistration, RegistrantID) VALUES ('John', 'Doe', '123 Main St', 'California', '90210', '1234567890', 'Male', 25, 'None', 'A+', '2023-01-01', 1), ('Jane', 'Smith', '456 Oak St', 'New York', '10001', '9876543210', 'Female', 30, 'Allergic to penicillin', 'B-', '2023-01-02', 2), ('Mike', 'Johnson', '789 Pine St', 'Texas', '75001', '5551234567', 'Male', 40, 'None', 'O+', '2023-01-03', 3), ('Sara', 'Williams', '101 Cedar St', 'Florida', '33101', '7890123456', 'Female', 28, 'High blood pressure', 'AB+', '2023-01-04', 4), ('David', 'Brown', '202 Elm St', 'Ohio', '44101', '3210987654', 'Male', 35, 'None', 'B+', '2023-01-05', 5), ('Emily', 'Davis', '303 Maple St', 'Illinois', '60601', '2345678901', 'Female', 22, 'None', 'O-', '2023-01-06', 6), ('Chris', 'Jones', '404 Birch St', 'Georgia', '30301', '8765432109', 'Male', 45, 'Diabetic', 'A-', '2023-01-07', 7), ('Olivia', 'Taylor', '505 Walnut St', 'Michigan', '48201', '1357924680', 'Female', 32, 'None', 'AB-', '2023-01-08', 8), ('Daniel', 'Miller', '606 Spruce St', 'Washington', '98101', '9870123456', 'Male', 27, 'None', 'A+', '2023-01-09', 9), ('Mia', 'Lee', '707 Fir St', 'Arizona', '85001', '8765432101', 'Female', 38, 'None', 'O+', '2023-01-10', 10);
```

Recent Favorites

Run SQL query/queries on table hnsn3.administrator:

```
1 INSERT INTO inventory (Street, State, ZipCode, BloodBagQtn) VALUES
2 ('123 Main St', 'California', '90210', 100),
3 ('456 Oak St', 'New York', '10001', 75),
4 ('789 Pine St', 'Texas', '75001', 120),
5 ('101 Cedar St', 'Florida', '33101', 50),
6 ('202 Elm St', 'Ohio', '44101', 90),
7 ('303 Maple St', 'Illinois', '60601', 60),
8 ('404 Birch St', 'Georgia', '30301', 80),
9 ('505 Walnut St', 'Michigan', '48201', 110),
10 ('606 Spruce St', 'Washington', '98101', 95),
11 ('707 Fir St', 'Arizona', '85001', 70);
```

Recent Favorites

Show query box

10 rows inserted.
Inserted row id: 40 (Query took 0.0016 seconds.)

```
INSERT INTO inventory (Street, State, ZipCode, BloodBagQtn) VALUES ('123 Main St', 'California', '90210', 100), ('456 Oak St', 'New York', '10001', 75), ('789 Pine St', 'Texas', '75001', 120), ('101 Cedar St', 'Florida', '33101', 50), ('202 Elm St', 'Ohio', '44101', 90), ('303 Maple St', 'Illinois', '60601', 60), ('404 Birch St', 'Georgia', '30301', 80), ('505 Walnut St', 'Michigan', '48201', 110), ('606 Spruce St', 'Washington', '98101', 95), ('707 Fir St', 'Arizona', '85001', 70);
```

[Edit inline] [Edit] [Create PHP code]

Run SQL query/queries on table hnsn3.administrator:

```
1 INSERT INTO blood_bag (BloodGroup, DateOfIssue, DateOfuse, InventoryID, DonorID, Available)
VALUES
2 ('A+', '2023-01-01', '2023-01-10', 31, 11, 1),
3 ('B-', '2023-02-05', '2023-02-15', 32, 12, 1),
4 ('O+', '2023-03-10', '2023-03-20', 33, 13, 0),
5 ('AB+', '2023-04-15', '2023-04-25', 34, 14, 1),
6 ('B+', '2023-05-20', '2023-05-30', 35, 15, 0),
7 ('O-', '2023-06-25', '2023-07-05', 36, 16, 1),
8 ('A-', '2023-07-30', '2023-08-10', 37, 17, 1),
9 ('AB-', '2023-09-05', '2023-09-15', 38, 18, 0),
10 ('A+', '2023-10-10', '2023-10-20', 39, 19, 1),
11 ('O+', '2023-11-15', '2023-11-25', 40, 20, 1);
```

Run SQL query/queries on table hnsn3.administrator:

```
10 rows inserted.  
Inserted row id: 60 (Query took 0.0003 seconds.)
```

```
INSERT INTO blood_bag (BloodGroup, DateOfIssue, DateOfuse, InventoryID, DonorID, Available)
VALUES
('A+', '2023-01-01', '2023-01-10', 31, 11, 1),
('B-', '2023-02-05', '2023-02-15', 32, 12, 1),
('O+', '2023-03-10', '2023-03-20', 33, 13, 0),
('AB+', '2023-04-15', '2023-04-25', 34, 14, 1),
('B+', '2023-05-20', '2023-05-30', 35, 15, 0),
('O-', '2023-06-25', '2023-07-05', 36, 16, 1),
('A-', '2023-07-30', '2023-08-10', 37, 17, 1),
('AB-', '2023-09-05', '2023-09-15', 38, 18, 0),
('A+', '2023-10-10', '2023-10-20', 39, 19, 1),
('O+', '2023-11-15', '2023-11-25', 40, 20, 1);
```

Run SQL query/queries on table hnsn3.administrator:

```
1 INSERT INTO hospital (HospitalName, Street, State, ZipCode) VALUES
('General Hospital', '123 Main St', 'California', '90210'),
('City Medical Center', '456 Oak St', 'New York', '10001'),
('Community Health Clinic', '789 Pine St', 'Texas', '75001'),
('Sunshine Hospital', '101 Cedar St', 'Florida', '33101'),
('Metropolitan Medical Center', '202 Elm St', 'Ohio', '44101'),
('Unity Health Services', '303 Maple St', 'Illinois', '60601'),
('Peachtree Hospital', '404 Birch St', 'Georgia', '30301'),
('Lakeview Medical Center', '505 Walnut St', 'Michigan', '48201'),
('Evergreen Hospital', '606 Spruce St', 'Washington', '98101'),
('Desert Regional Medical Center', '707 Fir St', 'Arizona', '85001');
```

Show query box

New
bds
hnsn3
New
administrator
admission
approve_requests_archive
blood_bag
blood_group
blood_group_receiver
donor
hospital
hospital_requests_blood
inventory
patient
information_schema

✓ 10 rows inserted.
Inserted row id: 80 (Query took 0.0016 seconds.)

```
INSERT INTO hospital (HospitalName, Street, State, ZipCode) VALUES ('General Hospital', '123 Main St', 'California', '90210'), ('City Medical Center', '456 Oak St', 'New York', '10001'), ('Community Health Clinic', '789 Pine St', 'Texas', '75001'), ('Sunshine Hospital', '101 Cedar St', 'Florida', '33101'), ('Metropolitan Medical Center', '202 Elm St', 'Ohio', '44101'), ('Unity Health Services', '303 Maple St', 'Illinois', '60601'), ('Peachtree Hospital', '404 Birch St', 'Georgia', '30301'), ('Lakeview Medical Center', '505 Walnut St', 'Michigan', '48201'), ('Evergreen Hospital', '606 Spruce St', 'Washington', '98101'), ('Desert Regional Medical Center', '707 Fir St', 'Arizona', '85001');
```

[Edit inline] [Edit] [Create PHP code]

Run SQL query/queries on table hnsn3.administrator:

New
bds
hnsn3
New
administrator
admission
approve_requests_archive
blood_bag
blood_group
blood_group_receiver
donor
hospital

```
1 INSERT INTO hospital_requests_blood (InventoryID, HospitalID, BagID, BloodGroupReq, BloodGroupRec) VALUES  
2 (31, 71, 51, 'A+', 'O+'),  
3 (32, 72, 52, 'B-', 'AB-'),  
4 (33, 73, 53, 'O+', 'A-'),  
5 (34, 74, 54, 'AB+', 'B+'),  
6 (35, 75, 55, 'B+', 'A+'),  
7 (36, 76, 56, 'O-', 'AB-'),  
8 (37, 77, 57, 'A-', 'O-'),  
9 (38, 78, 58, 'AB-', 'B-'),  
10 (39, 79, 59, 'A+', 'O+'),  
11 (40, 80, 60, 'O+', 'A+');
```

Show query box

Recent Favorites

New
bds
hnsn3
New
administrator
admission
approve_requests_archive
blood_bag
blood_group
blood_group_receiver
donor
hospital
hospital requests blood

✓ 10 rows inserted.
Inserted row id: 130 (Query took 0.0003 seconds.)

```
INSERT INTO hospital_requests_blood (InventoryID, HospitalID, BagID, BloodGroupReq, BloodGroupRec) VALUES (31, 71, 51, 'A+', 'O+'), (32, 72, 52, 'B-', 'AB-'), (33, 73, 53, 'O+', 'A-'), (34, 74, 54, 'AB+', 'B+'), (35, 75, 55, 'B+', 'A+'), (36, 76, 56, 'O-', 'AB-'), (37, 77, 57, 'A-', 'O-'), (38, 78, 58, 'AB-', 'B-'), (39, 79, 59, 'A+', 'O+'), (40, 80, 60, 'O+', 'A+');
```

[Edit inline] [Edit] [Create PHP code]

Run SQL query/queries on table hnsn3.admission:

New
bds
hnsn3
New
administrator
admission
approve_requests_archive
blood_bag
blood_group
blood_group_receiver
donor
hospital

```
1 INSERT INTO admission (TypeOfAdmission, Serverity) VALUES  
2 ('Emergency', 5),  
3 ('Routine', 3),  
4 ('Critical Care', 6),  
5 ('Elective', 2),  
6 ('Urgent', 4),  
7 ('Scheduled', 1),  
8 ('Non-Urgent', 0),  
9 ('Day Surgery', 2),  
10 ('Trauma', 5),  
11 ('Outpatient', 1);
```

Show query box

Recent Favorites

New
bds
hnsn3
New
administrator
admission
approve_requests_archive
blood_bag
blood_group
blood_group_receiver
donor
hospital
hospital_requests_blood
inventory

✓ 10 rows inserted. (Query took 0.0016 seconds.)

```
INSERT INTO admission (TypeOfAdmission, Serverity) VALUES ('Emergency', 5), ('Routine', 3), ('Critical Care', 6), ('Elective', 2), ('Urgent', 4), ('Scheduled', 1), ('Non-Urgent', 0), ('Day Surgery', 2), ('Trauma', 5), ('Outpatient', 1);
```

[Edit inline] [Edit] [Create PHP code]

```

1 INSERT INTO patient (FirstName, LastName, BloodGroup, Remarks, HospitalID, AdmissionReason, Serverity) VALUES
2 ('John', 'Doe', 'A+', 'None', 71, 'Emergency', 5),
3 ('Jane', 'Smith', 'B-', 'Allergic to penicillin', 72, 'Routine', 3),
4 ('Mike', 'Johnson', 'O+', 'None', 73, 'Critical Care', 6),
5 ('Sara', 'Williams', 'AB+', 'High blood pressure', 74, 'Elective', 2),
6 ('David', 'Brown', 'B+', 'None', 75, 'Urgent', 4),
7 ('Emily', 'Davis', 'O-', 'None', 76, 'Scheduled', 1),
8 ('Chris', 'Jones', 'A-', 'Diabetic', 77, 'Non-Urgent', 0),
9 ('Olivia', 'Taylor', 'AB-', 'None', 78, 'Day Surgery', 2),
10 ('Daniel', 'Miller', 'A+', 'None', 79, 'Trauma', 5),
11 ('Mia', 'Lee', 'O+', 'None', 80, 'Outpatient', 1);

```

✓ 10 rows inserted.
Inserted row id: 100 (Query took 0.0003 seconds.)

```

INSERT INTO patient (FirstName, LastName, BloodGroup, Remarks, HospitalID, AdmissionReason, Serverity) VALUES ('John', 'Doe', 'A+', 'None', 71, 'Emergency', 5), ('Jane', 'Smith', 'B-', 'Allergic to penicillin', 72, 'Routine', 3), ('Mike', 'Johnson', 'O+', 'None', 73, 'Critical Care', 6), ('Sara', 'Williams', 'AB+', 'High blood pressure', 74, 'Elective', 2), ('David', 'Brown', 'B+', 'None', 75, 'Urgent', 4), ('Emily', 'Davis', 'O-', 'None', 76, 'Scheduled', 1), ('Chris', 'Jones', 'A-', 'Diabetic', 77, 'Non-Urgent', 0), ('Olivia', 'Taylor', 'AB-', 'None', 78, 'Day Surgery', 2), ('Daniel', 'Miller', 'A+', 'None', 79, 'Trauma', 5), ('Mia', 'Lee', 'O+', 'None', 80, 'Outpatient', 1);

```

```

1 INSERT INTO approve_requests_archive (RequestID, InventoryID, HospitalID, BagID, BLoodGroupReq, BLoodGroupRec, DatetimeOfDispatch, ApproverID) VALUES
2 (121, 31, 71, 51, 'A+', 'O+', '2023-01-10', 1),
3 (122, 32, 72, 52, 'B-', 'AB-', '2023-02-15', 2),
4 (123, 33, 73, 53, 'O+', 'A-', '2023-03-20', 3),
5 (124, 34, 74, 54, 'AB+', 'B+', '2023-04-25', 4),
6 (125, 35, 75, 55, 'B+', 'A+', '2023-05-30', 5),
7 (126, 36, 76, 56, 'O-', 'AB-', '2023-07-05', 6),
8 (127, 37, 77, 57, 'A-', 'O-', '2023-08-10', 7),
9 (128, 38, 78, 58, 'AB-', 'B-', '2023-09-15', 8),
10 (129, 39, 79, 59, 'A+', 'O+', '2023-10-20', 9),
11 (130, 40, 80, 60, 'O+', 'A+', '2023-11-25', 10);

```

✓ 10 rows inserted.
Inserted row id: 160 (Query took 0.0007 seconds.)

```

INSERT INTO approve_requests_archive (RequestID, InventoryID, HospitalID, BagID, BLoodGroupReq, BLoodGroupRec, DatetimeOfDispatch, ApproverID) VALUES (121, 31, 71, 51, 'A+', 'O+', '2023-01-10', 1), (122, 32, 72, 52, 'B-', 'AB-', '2023-02-15', 2), (123, 33, 73, 53, 'O+', 'A-', '2023-03-20', 3), (124, 34, 74, 54, 'AB+', 'B+', '2023-04-25', 4), (125, 35, 75, 55, 'B+', 'A+', '2023-05-30', 5), (126, 36, 76, 56, 'O-', 'AB-', '2023-07-05', 6), (127, 37, 77, 57, 'A-', 'O-', '2023-08-10', 7), (128, 38, 78, 58, 'AB-', 'B-', '2023-09-15', 8), (129, 39, 79, 59, 'A+', 'O+', '2023-10-20', 9), (130, 40, 80, 60, 'O+', 'A+', '2023-11-25', 10);

```