

AHSANULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY



Department of Computer Science and Engineering Program: BSc in Computer Science and Engineering

Assignment No: 02

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Submitted to

Ms. Nawshin Tabassum Tanny

Lecturer (Grade-I), Department of CSE, AUST. Mr. Md. Siam Ansary

Lecturer (Grade-I), Department of CSE, AUST.

Submitted by,

Name: Mushfiqur Rahman Sajid

Student ID: 20210204004

Lab Section: A1

CSE 3104 – Assignment 02

Question: Write suitable SQL commands for the following tasks.

1. Create a table (Passenger) based on the following specifications

Attribute	Type
Passenger_ID	Integer
Passenger_FName	Varchar
Passenger_LName	Varchar
Passenger_Age	Integer
Destination	Varchar

2. Introduce Primary Key in combination of Passenger_ID and Passenger_LName
3. Introduce a Check so that the Passenger_Age must be greater than 18
4. Set the Default value of Destination as Kyoto 5. Add the following five records to the table

Passenger_ID	Passenger_FName	Passenger_LName	Passenger_Age	Destination
1	Ken	Kaneki	21	Tokyo
2	Hideyoshi	Nagachika	26	Tokyo
3	Frank	Robertson	46	Madrid
4	Indrajit	Roy	37	Delhi
5	Abul	Kashem	57	Lahore

6. Display the records in descending order in regards to the Passenger_Age values
7. Display the records whose Passenger_Age values are within the range of 25 to 40

8. Display Passenger_FName values of records whose Passenger_LName values have o in them
9. Drop the Check on Passenger_Age attribute
10. Drop the Default constraint from the Destination attribute

Solution:

```
--DROP DATABASE mydb;
```

```
CREATE DATABASE mydb;
```

```
--DROP TABLE Passenger;
```

```
CREATE TABLE Passenger ( Passenger_ID int NOT NULL, Passenger_FName varchar(200) NOT NULL,  
Passenger_LName varchar(200) NOT NULL, Passenger_Age int NOT NULL, Destination varchar(200)  
NOT NULL );
```

```
ALTER TABLE Passenger ADD CONSTRAINT pm_key PRIMARY KEY (Passenger_ID,Passenger_LName);
```

```
ALTER TABLE Passenger ADD CONSTRAINT chk CHECK (Passenger_Age>18);
```

```
ALTER TABLE Passenger ADD CONSTRAINT dflt DEFAULT 'kyoto' FOR Destination;
```

```
INSERT INTO Passenger values (1,'Ken','Kaneki',21,'Tokyo');
```

```
INSERT INTO Passenger values (2,'Hideyoshi','Nagachika',26,'Tokyo');
```

```
INSERT INTO Passenger values (3,'Frank','Robertson',46,'Madrid');
```

```
INSERT INTO Passenger values (4,'Indrajit','Roy',37,'Delhi');
```

```
INSERT INTO Passenger values (5,'Abul','Kashem',57,'Lahore');
```

```
SELECT * FROM Passenger ORDER BY Passenger_Age DESC;
```

```
SELECT * FROM Passenger WHERE Passenger_Age BETWEEN 25 AND 40;
```

```
SELECT Passenger_FName FROM Passenger WHERE Passenger_LName LIKE '%o%';
```

```
ALTER TABLE Passenger DROP CONSTRAINT chk;
```

```
ALTER TABLE Passenger DROP CONSTRAINT dflt;
```