**SQL DDL STATEMENTS**

**Question 1**

Create table Customers,Agent and Orders. Use primary key for each tables and foreign keys for connecting the tables.Use Comments while creating the tables.

TABLE CREATION

CREATE TABLE agent (

agent\_code char(4) PRIMARY KEY NOT NULL,

agent\_name varchar(20) NOT NULL,

country varchar(20),

phone\_no bigint,

status tinyint

) COMMENT ‘Agent Table’ ;

CREATE TABLE customer (

cust\_code char(4) PRIMARY KEY NOT NULL,

cust\_name varchar(20) NOT NULL,

cust\_city varchar(20),

phone\_no bigint,

agent\_code char(4),

FOREIGN KEY(agent\_code) REFERENCES agent(agent\_code)

) COMMENT ‘Customer Table’ ;

CREATE TABLE order\_table (

order\_num char(4) PRIMARY KEY NOT NULL,

cust\_code char(4) NOT NULL,

agent\_code char(4) NOT NULL,

amount int,

order\_date date,

FOREIGN KEY(cust\_code) REFERENCES customer(cust\_code),

FOREIGN KEY(agent\_code) REFERENCES agent(agent\_code),

) COMMENT ‘Order Table’ ;

INSERTION

INSERT INTO agent VALUES('A001','Joe','Canada',2345623452,0);

INSERT INTO agent VALUES('A002','Sara','India',1234567890,1);

INSERT INTO agent VALUES('A003','Wiley','Bahamas',9876543210,1);

INSERT INTO agent VALUES('A004','Katniss','Ireland',3456543698,1);

INSERT INTO agent VALUES('A005','Arjun','India',9844342345,0);

INSERT INTO customer VALUES('C001','Albert','Chennai',9798865876,'A001');

INSERT INTO customer VALUES('C002','Ravi','Bangalore',9876123456,'A002');

INSERT INTO customer VALUES('C003','Archana','Chennai',9452309812,'A004');

INSERT INTO customer VALUES('C004','Riya','Trichy',9612309876,'A002');

INSERT INTO customer VALUES('C005','Pavithra','Kanyakumari',9612309856,'A005');

INSERT INTO order\_table VALUES('O001','C001','A001',50000,'12/2/21');

INSERT INTO order\_table VALUES('O002','C002','A002',3000,'26/03/21');

INSERT INTO order\_table VALUES('O003','C005','A004',25000,'21/01/21');

INSERT INTO order\_table VALUES('O004','C003','A003',6000,'06/03/21');

INSERT INTO order\_table VALUES('O005','C004','A005',10000,'13/09/19');

**Question2**

Alter the table agent , Add a new Column called "Commission".

ALTER TABLE agent ADD COLUMN Commission decimal(3,2);

UPDATE agent SET commission = 0.96 WHERE agent\_code = 'A002';

UPDATE agent SET commission = 0.2 WHERE agent\_code = 'A001';

UPDATE agent SET commission = 0.23 WHERE agent\_code = 'A003';

UPDATE agent SET commission = 0.12 WHERE agent\_code = 'A004';

UPDATE agent SET commission = 0.76 WHERE agent\_code = 'A005';

**Question 3**

Delete the column Phone\_No from the agents table.

ALTER TABLE agent DROP COLUMN phone\_no;

**Question 4**

Rename the Column "Commision" as "Commision\_Percentage".

ALTER TABLE agent CHANGE commission commission\_percentage decimal(3,2);

**Question 5**

Make a copy of agent table with a table name as "AGENT\_DETAILS" and delete the old agent table with the name "AGENT" .

CREATE TABLE agent\_details AS ( SELECT \* FROM agent ) ;

ALTER TABLE customer DROP FOREIGN KEY customer\_ibfk\_1;

DROP TABLE agent;

**Question 6**

Delete all the order table records in a single command

TRUNCATE TABLE order\_table;

**Question 7**

Alter the tables orders and set a default value for the column Amount.

ALTER TABLE order\_table ALTER amount SET DEFAULT 0;