

```

/* 1 */
create table EMPLOYEE (
EMP_NUM varchar(3),
EMP_LNAME varchar(15),
EMP_FNAME varchar(15),
EMP_INITIAL varchar(15),
EMP_HIREDATE datetime,
JOB_CODE varchar(3),
primary key (EMP_NUM),
foreign key (JOB_CODE) references JOB(JOB_CODE)
);
select * from constructco.employee;

/* 2 */
INSERT INTO EMPLOYEE VALUES('101','News','John','G','2000-11-8','502','4');
INSERT INTO EMPLOYEE VALUES('102','Senior','David','H','1989-7-12','501','15');
INSERT INTO EMPLOYEE VALUES('103','Arbough','June','E','1996-12-1','500','8');
INSERT INTO EMPLOYEE VALUES('104','Ramoras','Anne','K','1987-11-15','501','17');
INSERT INTO EMPLOYEE VALUES('105','Johnson','Alice','K','1993-2-1','502','12');
INSERT INTO EMPLOYEE VALUES('106','Smithfield','William',NULL,'2004-6-
22','500','0');
INSERT INTO EMPLOYEE VALUES('107','Alonzo','Maria','D','1993-10-10','500','11');
INSERT INTO EMPLOYEE VALUES('108','Washington','Ralph','B','1991-8-22','501','13');
INSERT INTO EMPLOYEE VALUES('109','Smith','Larry','W','1997-7-18','501','7');

/* 3 */
INSERT INTO EMPLOYEE VALUES('110','Olenko','Gerald','A','1995-12-11','505','9');
INSERT INTO EMPLOYEE VALUES('111','Wabash','Geoff','B','1991-4-4','506','14');
INSERT INTO EMPLOYEE VALUES('112','Smithson','Darlene','M','1994-10-
23','507','10');
INSERT INTO EMPLOYEE VALUES('113','Joebrood','Delbert','K','1996-11-
15','508','8');
INSERT INTO EMPLOYEE VALUES('114','Jones','Annelise',NULL,'1993-8-20','508','11');
INSERT INTO EMPLOYEE VALUES('115','Bawangi','Travis','B','1992-1-25','501','13');
INSERT INTO EMPLOYEE VALUES('116','Pratt','Gerald','L','1997-3-5','510','8');
INSERT INTO EMPLOYEE VALUES('117','Williamson','Angie','H','1996-6-19','509','8');
INSERT INTO EMPLOYEE VALUES('118','Frommer','James','J','2005-1-4','510','0');
select * from constructco.employee;

/* 4 */
select EMP_1
commit;

/* 5 */
update EMP_1
set JOB_CODE = '501'
where EMP_NUM = '107';

/* 6 */
delete from EMP_1
where EMP_FNAME = 'William'
and EMP_LNAME = 'Smithfield'
and EMP_HIREDATE = '2004-6-22'
and JOB_CODE = '500';

/* 7 */
SELECT * INTO EMP_2 FROM EMP_1;

/* 8 */

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alter TABLE emp_2
modify column EMP_PCT Decimal (4,2);
alter TABLE emp_2
modify column PROJ_NUM character (3);

/* 9 */
update EMP_2
set EMP_PCT = '3.85'
where EMP_NUM = '103';

/* 10 */
update EMP_2
set EMP_PCT = '5.00'
where EMP_NUM in ('101' '105' '107');

/* 11 */
Update EMP_2
set EMP_PCT = '10.00'
where EMP_PCT is null;

/* 12 */
update EMP_2
set EMP_PCT= '.15'
where LNAME = 'Maria' and FNAME= 'Alonzo';

/* 13 */
update EMP_2
set PROJ_NUM= '18'
where JOB_CODE = '500';

/* 14 */
update EMP_2
set PROJ_NUM = '25'
where JOB_CODE = '502';

/* 15 */
update emp_2
set PROJ_NUM = '14'
where EMP_HIREDATE < '1994-1-1' and JOB_CODE >= '501';

/* 16 */
create table CH08_CUSTOMER (
CUST_NUM varchar(4),
CUST_LNAME varchar(30),
CUST_FNAME varchar(30),
CUST_BALANCE decimal(6,2),
primary key (CUST_NUM));

/* 17 */
create table INVOICE (
INV_NUM varchar(4),
CUST_NUM varchar(30),
INV_DATE DATETIME,
primary key (INV_NUM));

/* 18 */
insert into CH08_CUSTOMER values (1000, 'Smith', 'Jeanne', 1050.11);

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```

insert into CH08_CUSTOMER values (1001,'Ortega','Juan',840.92);

/* 19 */
insert into INVOICE values (8000,1000,2016-3-23,235.89);
insert into INVOICE values (8001,1001,2016-3-23,312.82);
insert into INVOICE values (8002,1001,2016-3-30,528.10);
insert into INVOICE values (8003,1000,2016-4-12,194.70);
insert into INVOICE values (8004,1000,2016-4-23,619.44);

/* 20*/
create sequence CUST_NUM_SEQ
Start with 2000
Nocache;

/* 21 */
create sequence INV_NUM_SEQ
Start with 9000
Nocache;

/* 22 */
Insert into CUST_MYSQL(CUST_LNAME, CUST_FNAME,CUST_BALANCE)
value ('Powers', 'Ruth', 500);

/* 23 */
alter table CUST_MYSQL
add CUST_DOB date;

/* 24 */
update CUST_MYSQL
set CUST_DOB = '1989-03-15'
where CUST_NUM= 1000;

/* 25 */
update CUST_MYSQL
set CUST_DOB = '1988-12-22'
where CUST_NUM= 1001;

/* 26 */
Create Trigger TRG_UPDATECUSTBALANCE
after Insert on INVOICE
for each row

Update CUST_MYSQL
    set CUST_BALANCE = CUST_BALANCE + NEW.INV_AMOUNT
    where CUST_NUM = NEW.CUST_NUM;

Select * from CUST_MYSQL;
Insert into INVOICE values (8005,1001, '2018-04-27');
Select * from CUST_MYSQL;

/* 27 */
create or replace procedure prc_cust_add
(W_CN IN NUMBER, W_CLN IN VARCHAR, W_CFN IN VARCHAR, W_CBAL IN NUMBER)
AS
BEGIN
INSERT INTO CH08_CUSTOMER
VALUES (W_CN, W_CLN, W_CFN, W_CBAL)

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prc_cust_add(1002, 'Rauthor','Peter', 0.00)
END;
SELECT * FROM CUSTOMER;

/* 28 */
create or replace procedure prc_invoice_add
(W_CN IN NUMBER, W_CLN IN VARCHAR, W_CFN IN VARCHAR, W_CBAL IN NUMBER)
AS
BEGIN
INSERT INTO INVOICE
VALUES (W_CN, W_CLN, W_CFN, W_CBAL)
prc_invoice_add (8006, 1000, '2018-04-30', '301.72')
END;
SELECT * FROM INVOICE;

/* 29 */
create or replace TIGGER trg_updatecustbalance2
after delete on INVOICE
for each row
declare
begin
update CUSTOMER
set CUST_BALANCE = CUST_BALANCE -: OLD.AMOUNT
where CUST_NUM = :OLD.CUST_NUM
END;

/* 30 */
create or replace PROCEDURE Proc_Name
as
Begin
IF IN_NUM is not null
Delete From INVOICE
Where INV_NUM = IN_NUM
END if,
END;
EXEC PRC_INV_DELETE (8005)
EXEC PRC_INV_DELETE (8006)
Select * from INVOICE;

/* KCT */
/* KCT sample tables */
/* Type of SQL : MySQL */

/* Create the KCT_Costumetype table. */
/* The KCT_Costumetype table must be created before the KCT_Costume table, */
/* since the Costumetype field in the KCT_Costume table refers to the
KCT_Costumetype table's typeID field. */

CREATE TABLE KCT_Costumetype (
  TypeId          SMALLINT      NOT NULL,
  Description      VARCHAR(35)  NOT NULL,
  Photo           VARCHAR(30),
  DailyRentalRate NUMERIC(8,2)  NOT NULL,
  depositRate     NUMERIC(8,2),
  replacementCost NUMERIC(8,2),
  PRIMARY KEY (typeId));

/* Insert data into the KCT_Costumetype table. */

```

```
INSERT INTO KCT_Costumetype (TypeId, description, photo, dailyrentalrate,
depositrate,replacementcost)
VALUES (1, "Clown","clown.jpg",20.00,30.00,50.00);
```

```
INSERT INTO KCT_Costumetype (TypeId, description, photo, dailyrentalrate,
depositrate,replacementcost)
VALUES (2, "Ballerina","ballerina.jpg",20.00,20.00,50.00);
```

```
INSERT INTO KCT_Costumetype (TypeId, description, photo, dailyrentalrate,
depositrate,replacementcost)
VALUES (3, "Gorilla","gorilla.jpeg",30.00,23,50);
```

```
INSERT INTO KCT_Costumetype (TypeId, description, dailyrentalrate)
VALUES (4, "Misc",50.00);
```

```
INSERT INTO KCT_Costumetype (TypeId,description, photo, dailyrentalrate,
depositrate,replacementcost)
VALUES (5, "star wars: DARTH Vader","darth vader.jpg",40.00,30.00,70.00);
```

```
INSERT INTO KCT_Costumetype (TypeId, description, photo, dailyrentalrate,
depositrate,replacementcost)
VALUES (6, "star wars: luke","luke.jpg",40.00,30.00,70.00);
```

```
INSERT INTO KCT_Costumetype (TypeId, description, photo, dailyrentalrate,
depositrate,replacementcost)
VALUES (7, "star wars: leia","leia.jpg",40.00,30.00,70.00);
```

```
/* Create the KCT_Costume table */
/* We set the available field to "true" as a default. */
/* The Costumetype field in the KCT_Costume table refers to the KCT_Costumetype
table's typeID field. */
```

```
CREATE TABLE KCT_Costume (
  CostumeID SMALLINT NOT NULL,
  size VARCHAR(10) NOT NULL,
  available BOOLEAN NOT NULL DEFAULT TRUE,
  datePurchased DATE,
  Costumetype SMALLINT NOT NULL,
  PRIMARY KEY (CostumeID),
  FOREIGN KEY (Costumetype) REFERENCES KCT_Costumetype(typeID));
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (1, "large",1,'2009-02-04',2);
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (2, "medium",1,'2009-03-04',1);
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (3, "large",1,'2009-04-04',3);
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (4, "large",1,'2009-05-04',2);
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (5, "small",0,'2009-06-04',2);
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (6, "small",1,'2009-07-04',2);
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (7, "small",0,'2009-07-14',5);
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (8, "medium",1,'2009-08-14',7);
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (9, "large",0,'2009-08-14',6);
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (10, "medium",1,'2009-08-14',5);
```

```
INSERT INTO KCT_Costume (CostumeID, size, available, datePurchased, Costumetype)
VALUES (11, "medium",1,'2009-08-14',6);
```

```
CREATE TABLE KCT_Customer (
  CustomerID SMALLINT NOT NULL,
  Firstname VARCHAR(10) NOT NULL,
  lastname VARCHAR(10) NOT NULL,
  Street VARCHAR(15) NOT NULL,
  City VARCHAR(10) NOT NULL,
  state VARCHAR(15),
  zip int,
  phone int,
  PRIMARY KEY (CustomerID));
```

```
INSERT INTO KCT_Customer (CustomerID, Firstname, lastname, Street, City,
state, zip, phone)
VALUES (5, 'Khalid', 'Al Rasbi', '25', 'NE', '68845', '4023321082');
```

```
INSERT INTO KCT_Customer (CustomerID, Firstname, lastname, Street, City,
state, zip, phone)
VALUES (7, 'Hakim', 'Bezri', '16', 'NE', '68845', '3025541676');
```

```
INSERT INTO KCT_Customer (CustomerID, Firstname, lastname, Street, City,
state, zip, phone)
VALUES (9, 'Ali', 'Al ghaithi', '22', 'NE', '68845', '4022215647');
```

```
CREATE TABLE KCT_Rental (
  RentalID SMALLINT NOT NULL,
  Rentaldate date,
  Numberofdays int,
  Rentalamount decimal,
  Deposit decimal,
  Tax decimal,
  Totalamount decimal,
  CustomerID SMALLINT,
  ReturnDate date,
  Amountreturned decimal,
  PRIMARY KEY (RentalID),
  FOREIGN KEY (CustomerID) REFERENCES KCT_Customer(CustomerID));
```

```
INSERT INTO KCT_Rental (RentalID, Rentaldate, Numberofdays, Rentalamount, Deposit,
Tax, Totalamount, CustomerID, ReturnDate, Amountreturned )
VALUES ('1','2020-11-5', '10', '4', '0.2', '25', '4', '2020-11-25', '6');
```

```
INSERT INTO KCT_Rental (RentalID, Rentaldate, Numberofdays, Rentalamount, Deposit,
Tax, Totalamount, CustomerID, ReturnDate, Amountreturned )
```

```

VALUES ('1','2020-09-1', '33', '3', '0.2', '23', '1', '2020-12-25', '5');

INSERT INTO KCT_Rental (RentalID, Rentaldate, Numberofdays, Rentalamount, Deposit,
Tax, Totalamount, CustomerID, ReturnDate, Amountreturned )
VALUES ('1','2020-11-1', '20', '1', '0.2', '12', '7', '2020-11-20', '8');

CREATE TABLE KCT_lineitem (
RentalID SMALLINT NOT NULL,
CostumeID SMALLINT NOT NULL,
Rate DECIMAL(10,0) DEFAULT NULL,
Deposit DECIMAL(10,0) DEFAULT NULL,
PRIMARY KEY (RentalID,CostumeID),
CONSTRAINT lineRentalFK FOREIGN KEY (RentalID) REFERENCES KCT_Rental (RentalID),
CONSTRAINT linecostumeFK FOREIGN KEY (CostumeID) REFERENCES KCT_Costume
(costumeID));

INSERT INTO KCT_Lineitem(RentalID, CostumeID, Rate , Deposit)
VALUES ('1','1', '22', '40');

INSERT INTO KCT_Lineitem(RentalID, CostumeID, Rate , Deposit)
VALUES ('2','2', '19', '25');

INSERT INTO KCT_Lineitem(RentalID, CostumeID, Rate , Deposit)
VALUES ('3','2', '30', '30');

SELECT (FirstName,LastName, PhoneNumber)
from KCT_Customer;

SELECT (FirstName,LastName, PhoneNumber)
from KCT_Customer
where TotalAmount>1 and ReturnDate is not null;

SELECT (FirstName,LastName, PhoneNumber)
from KCT_Customer LEFT JOIN KCT_Renatl on TotalAmount >1 and ReturnDate is not
null;

SELECT (CostumeID, Size, Description)
FROM KCT_Costume;

SELECT (CostumeID, Size, Description)
FROM KCT_Costume
WHERE Description = 'star wars';

SELECT (CostumeID, Size, Description)
FROM KCT_Costume
WHERE Rentalamount >1;

SELECT (CostumeID, Size, Description)
FROM KCT_Costume
WHERE Numberofdays<30;

CREATE VIEW KCT_CustomerAddress
AS SELECT KCT_Customer.LastName AS LastName,KCT_Customer.FirstName AS FirstName,
KCT_Customer.Street AS Street,KCT_Customer.City AS City, KCT_Customer.state as
State, KCT_Customer.zip AS ZipCode
FROM KCT_Customer;

CREATE VIEW KCT_LateRental
AS SELECT KCT_Customer.LastName AS LastName,KCT_Customer.FirstName AS FirstName,

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```
KCT_Customer.phone AS PhoneNumber,  
KCT_Rental.Rentaldate AS RentalDate, KCT_Rental.Rentalamount AS RentalAmount,  
KCT_Rental.Numberofdays AS NumberOfDays,  
(current_date() - KCT_Rental.Rentaldate - KCT_Rental.NumberOfDays) AS  
NumberOfDaysLate  
FROM KCT_Rental, KCT_Customer  
where current_date() > (Rentaldate + Numberofdays) and ReturnDate is not null ;
```