VOUCHER REGISTERED

Accounting Storage System

NO	VOUCHER NO	PAYMENT TO	BANK NAME	CURRENCY	LOCATION
1	O04-2208-032	HARUM INDAH SARI TOURS AND TRAVEL, PT	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
2	O04-2208-031	DAPUR DEDE	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
3	O04-2208-027	SPKPBM: BC25	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
4	O04-2208-024	SPKPBM	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
5	O04-2208-026	SPKPBM	BTMU	IDR	ZIP1-STR-L01-R01-B01-BT01
6	O04-2208-025	SPKPBM	BTMU	IDR	ZIP1-STR-L01-R01-B01-BT01
7	O04-2208-008	SPKPBM: BC25	BTMU	IDR	ZIP1-STR-L01-R01-B01-BT01
8	O04-2208-030	BATAVIA ADVOCATORUM	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
9	O04-2208-029	ASTRA INTERNATIONAL TBK,PT	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
10	O04-2208-028	AON INDONESIA, PT	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
11	I04-2208-003	MUFG USD A/C	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
12	O04-2208-023	SPKPBM	BTMU	IDR	ZIP4-STR-L01-R01-000-BT01
13	I04-2208-002	MUFG USD A/C	BTMU	IDR	ZIP4-STR-L01-R01-000-BT01
14	O04-2208-019	SPKPBM: BC25	BTMU	IDR	ZIP4-STR-L01-R01-000-BT01
15	O04-2208-018	ANGKASA PURA PROPERTINDO, PT	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
16	O04-2208-017	SAMUDRA ADIDAYA SENTOSA, PT	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
17	O04-2208-016	SPKPBM: BC25	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
18	O04-2208-015	SPKPBM: BC25	BTMU	IDR	ZIP4-OFC-L01-R01-000-BT01
19	O03-2208-003	HAI AN COUNTY ZHONGXIANG WIRE INDUSTRY	CO., LTD BTMU	USD	ZIP1-STR-L01-R01-B01-BT01
20	O04-2208-062	TOTAL DEVELOPMENT SOLUTION, PT	BTMU	IDR	ZIP1-STR-L01-R01-B01-BT01
21	O04-2208-055	SURYAMAS DUTAMAKMUR,PT/VIRTUAL HIDEKI	SAITO BTMU	IDR	ZIP1-STR-L01-R01-B01-BT01
22	O04-2208-054	SUCOFINDO LABORATORIUM ,PT	BTMU	IDR	ZIP1-STR-L01-R01-B01-BT01
23	O04-2208-020	BPJS KESEHATAN	BTMU	IDR	ZIP1-OFC-L01-R01-B01-BT01
24	I04-2208-001	MUFG EUR A/C	BTMU	IDR	ZIP1-STR-L01-R01-B01-BT01
25	O04-2208-002	SPKPBM	BTMU	IDR	ZIP1-STR-L01-R01-B01-BT01
26	O04-2208-001	SPKPBM	BTMU	IDR	ZIP1-STR-L01-R01-B01-BT01
27	O04-2208-014	VERENA MULTI FINANCE, PT	BTMU	IDR	ZIP1-OFC-L01-R01-B01-BT01
28	O04-2208-013	VERENA MULTI FINANCE, PT	BTMU	IDR	ZIP1-OFC-L01-R01-B01-BT01
29	O04-2208-006	BERJAYA MAHANUGRAH ABADI, PT	BTMU	IDR	ZIP1-STR-L01-R01-B01-BT01
30	O04-2208-012	SPKPBM: BC25	BTMU	IDR	ZIP1-OFC-L01-R01-B01-BT01
31	O04-2208-011	SPKPBM: BC25	BTMU	IDR	ZIP1-OFC-L01-R01-B01-BT01
32	O04-2208-010	SPKPBM: BC25	BTMU	IDR	ZIP1-OFC-L01-R01-B01-BT01
33	O04-2208-009	SPKPBM: BC25	BTMU	IDR	ZIP1-OFC-L01-R01-B01-BT01

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SQL CHEAT SHEET http://www.sqltutorial.org



QUERYING DATA FROM A TABLE

SELECT c1, c2 FROM t;

Query data in columns c1, c2 from a table

SELECT * FROM t;

Query all rows and columns from a table

SELECT c1, c2 FROM t

WHERE condition;

Query data and filter rows with a condition

SELECT DISTINCT c1 FROM t

WHERE condition;

Query distinct rows from a table

SELECT c1, c2 FROM t

ORDER BY c1 ASC [DESC];

Sort the result set in ascending or descending order

SELECT c1, c2 FROM t

ORDER BY c1

LIMIT n OFFSET offset;

Skip *offset* of rows and return the next n rows

SELECT c1, aggregate(c2)

FROM t

GROUP BY c1;

Group rows using an aggregate function

SELECT c1, aggregate(c2)

FROM t

GROUP BY c1

HAVING condition;

Filter groups using HAVING clause

QUERYING FROM MULTIPLE TABLES

SELECT c1, c2 FROM t1

INNER JOIN t2 ON condition;

Inner join t1 and t2

SELECT c1, c2 FROM t1

LEFT JOIN t2 ON condition;

Left join t1 and t1

SELECT c1, c2

FROM t1

RIGHT JOIN t2 ON condition;

Right join t1 and t2

SELECT c1, c2

FROM t1

FULL OUTER JOIN t2 ON condition;

Perform full outer join

SELECT c1, c2

FROM t1

CROSS JOIN t2;

Produce a Cartesian product of rows in tables

SELECT c1, c2

FROM t1, t2;

Another way to perform cross join

SELECT c1, c2

FROM t1 A

INNER JOIN t2 B ON condition;

Join t1 to itself using INNER JOIN clause

USING SQL OPERATORS

SELECT c1, c2 FROM t1

UNION [ALL]

SELECT c1, c2 FROM t2;

Combine rows from two queries

SELECT c1. c2 FROM t1

INTERSECT

SELECT c1, c2 FROM t2;

Return the intersection of two queries

SELECT c1, c2 FROM t1

MINUS

SELECT c1, c2 FROM t2;

Subtract a result set from another result set

SELECT c1, c2 FROM t1

WHERE c1 [NOT] LIKE pattern;

Query rows using pattern matching %, _

SELECT c1, c2 FROM t

WHERE c1 [NOT] IN value_list;

Query rows in a list

SELECT c1, c2 FROM t

WHERE c1 BETWEEN low AND high;

Query rows between two values

SELECT c1, c2 FROM t

WHERE c1 IS [NOT] NULL;

Check if values in a table is NULL or not

SQL CHEAT SHEET http://www.sqltutorial.org



MANAGING TABLES

```
CREATE TABLE t (
id INT PRIMARY KEY,
name VARCHAR NOT NULL,
price INT DEFAULT 0
);
Create a pour table with three columns
```

Create a new table with three columns

DROP TABLE t;

Delete the table from the database

ALTER TABLE t ADD column:

Add a new column to the table

ALTER TABLE t DROP COLUMN c;

Drop column c from the table

ALTER TABLE t ADD constraint;

Add a constraint

ALTER TABLE t DROP constraint:

Drop a constraint

ALTER TABLE t1 RENAME TO t2;

Rename a table from t1 to t2

ALTER TABLE t1 RENAME c1 TO c2;

Rename column c1 to c2

TRUNCATE TABLE t;

Remove all data in a table

USING SQL CONSTRAINTS

```
CREATE TABLE t(
  c1 INT, c2 INT, c3 VARCHAR,
  PRIMARY KEY (c1,c2)
Set c1 and c2 as a primary key
CREATE TABLE t1(
  c1 INT PRIMARY KEY,
  c2 INT.
  FOREIGN KEY (c2) REFERENCES t2(c2)
Set c2 column as a foreign key
CREATE TABLE t(
  c1 INT, c1 INT,
  UNIQUE(c2,c3)
Make the values in c1 and c2 unique
CREATE TABLE t(
 c1 INT, c2 INT,
 CHECK(c1>0 AND c1>=c2)
Ensure c1 > 0 and values in c1 > = c2
CREATE TABLE t(
   c1 INT PRIMARY KEY,
   c2 VARCHAR NOT NULL
Set values in c2 column not NULL
```

MODIFYING DATA

INSERT INTO t(column_list) VALUES(value list);

Insert one row into a table

INSERT INTO t(column_list) VALUES (value list),

(value list),;

Insert multiple rows into a table

INSERT INTO t1(column_list)

SELECT column_list

FROM t2;

Insert rows from t2 into t1

UPDATE t

SET c1 = new value;

Update new value in the column c1 for all rows

UPDATE t

SET c1 = new_value, c2 = new value

WHERE condition:

Update values in the column c1, c2 that match the condition

DELETE FROM t;

Delete all data in a table

DELETE FROM t

WHERE condition;

Delete subset of rows in a table

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MANAGING VIEWS

CREATE VIEW v(c1,c2)

AS

SELECT c1, c2

FROM t;

Create a new view that consists of c1 and c2

CREATE VIEW v(c1,c2)

AS

SELECT c1, c2

FROM t;

WITH [CASCADED | LOCAL] CHECK OPTION;

Create a new view with check option

CREATE RECURSIVE VIEW v

AS

select-statement -- anchor part

UNION [ALL]

select-statement; -- recursive part

Create a recursive view

CREATE TEMPORARY VIEW v

AS

SELECT c1, c2

FROM t;

Create a temporary view

DROP VIEW view name;

Delete a view

MANAGING INDEXES

CREATE INDEX idx_name

ON t(c1,c2);

Create an index on c1 and c2 of the table t

CREATE UNIQUE INDEX idx_name ON t(c3,c4);

Create a unique index on c3, c4 of the table t

DROP INDEX idx name;

Drop an index

SQL AGGREGATE FUNCTIONS

AVG returns the average of a list

COUNT returns the number of elements of a list

SUM returns the total of a list

MAX returns the maximum value in a list

MIN returns the minimum value in a list

MANAGING TRIGGERS

CREATE OR MODIFY TRIGGER trigger_name WHEN EVENT

ON table_name TRIGGER_TYPE EXECUTE stored_procedure;

Create or modify a trigger

WHEN

- BEFORE invoke before the event occurs
- AFTER invoke after the event occurs

EVENT

- INSERT invoke for INSERT
- UPDATE invoke for UPDATE
- DELETE invoke for DELETE

TRIGGER TYPE

- FOR EACH ROW
- FOR EACH STATEMENT

CREATE TRIGGER before_insert_person BEFORE INSERT

ON person FOR EACH ROW

EXECUTE stored_procedure;

Create a trigger invoked before a new row is inserted into the person table

DROP TRIGGER trigger_name;

Delete a specific trigger