

```

/* 4 */
SELECT DISTINCT PROJ_NUM
FROM assignment
ORDER BY PROJ_NUM;

/* 5 */
select assign_num, emp_num, proj_num, assign_charge, ASSIGN_CHG_HR* assign_hours as
'Calc charge', round(ASSIGN_CHARGE- (ASSIGN_CHG_HR*ASSIGN_HOURS),0) as 'Difference'
FROM assignment
order by assign_num;

/* 6 */
select a.emp_num, emp_lname, round(sum(assign_hours),2) as 'Total Charge'
from assignment a, employee e
where a.EMP_NUM = e.EMP_NUM
group by a.emp_num
order by EMP_NUM;

/* 7 */
select PROJ_NUM, round(SUM(ASSIGN_HOURS),0) as 'SumOfASSIGN_HOURS',
round(SUM(ASSIGN_CHARGE),0) as 'SumOfASSIGN_CHARGE'
from assignment
group by PROJ_NUM
order by PROJ_NUM;

/* 8 */
select round(sum(assign_hours),0) as SumOfASSIGN_HOURS, round(sum(assign_charge),0)
as SumOfASSIGN_CHARGE
from assignment;

/* 61 */
select BOOK_SUBJECT
from BOOK
group by BOOK_SUBJECT
order by BOOK_SUBJECT;

/*62 */
select BOOK_NUM, BOOK_TITLE, BOOK_COST as'Replacement Cost'
from BOOK
order by BOOK_NUM;

/* 63 */
select CHECK_NUM, BOOK_NUM, PAT_ID, CHECK_OUT_DATE, CHECK_DUE_DATE
from CHECKOUT
order by CHECK_NUM;

/* 64 */
select BOOK_TITLE, BOOK_YEAR, BOOK_SUBJECT
from BOOK
order by BOOK_SUBJECT;

/* 65 */
select BOOK_NUM, BOOK_TITLE, BOOK_COST
from BOOK
where BOOK_COST = '59.95'
order by BOOK_NUM;

/* 66 */
select BOOK_NUM, BOOK_TITLE, BOOK_COST

```

```

from BOOK
where BOOK_TITLE like '%Database%'
order by BOOK_NUM;

/* 67 */
select CHECK_NUM, BOOK_NUM, CHECK_OUT_DATE
from CHECKOUT
where CHECK_OUT_DATE < '2017-04-05'
order by CHECK_NUM;

/* 68 */
select BOOK_NUM, BOOK_TITLE, BOOK_YEAR
from BOOK
where BOOK_YEAR > '2015' and BOOK_TITLE like '%Programming%'
order by BOOK_NUM;

/* 69 */
select BOOK_NUM, BOOK_TITLE, BOOK_SUBJECT, BOOK_COST
from BOOK
where BOOK_SUBJECT = "Middleware" or BOOK_SUBJECT = "Cloud" and BOOK_COST > 70
order by BOOK_NUM;

/* 70 */
select AU_ID, AU_LNAME, AU_BIRTHYEAR
from AUTHOR
where AU_BIRTHYEAR between 1980 and 1989
order by AU_ID;

/* 71 */
select BOOK_NUM, BOOK_TITLE, BOOK_SUBJECT
from BOOK
where BOOK_TITLE like '%Database%'
order by BOOK_NUM;

/* 72 */
select PAT_ID, PAT_FNAME, PAT_LNAME
from PATRON
where PAT_TYPE = 'Student'
order by PAT_ID;

/* 73 */
select PAT_ID, PAT_FNAME, PAT_LNAME, PAT_TYPE
from PATRON
where PAT_LNAME like 'C%'
order by PAT_ID;

/* 74 */
select AU_ID, AU_FNAME, AU_LNAME
from AUTHOR
where AU_BIRTHYEAR is null
order by AU_ID;

/* 75 */
select AU_ID, AU_FNAME, AU_LNAME
from AUTHOR
where AU_BIRTHYEAR is not null
order by AU_ID;

/* 76 */

```

```
select CHECK_NUM, BOOK_NUM, PAT_ID, CHECK_OUT_DATE, CHECK_DUE_DATE
from CHECKOUT
where CHECK_IN_DATE is null
order by BOOK_NUM;
```

```
/* 77 */
select AU_ID, AU_FNAME, AU_BIRTHYEAR
from AUTHOR
order by AU_BIRTHYEAR DESC , AU_LNAME ASC;
```

```
/* 78 */
select count(BOOK_NUM) as 'Number of Books'
from BOOK;
```

```
/* 79 */
select count(distinct BOOK_SUBJECT) as 'Number of Subject'
from BOOK;
```

```
/* 80 */
select count(BOOK_NUM) as 'Available Books'
from BOOK
where PAT_ID is null;
```

```
/* 81 */
select MAX(BOOK_COST) as 'Most Expensive'
from BOOK;
```

```
/* 82 */
select MIN(BOOK_COST) as 'Least Expensive'
from BOOK;
```

```
/* 83 */
select count(Distinct PAT_ID) as 'DIFFERENT PATRONS'
from CHECKOUT;
```

```
/* 84 */
select BOOK_SUBJECT, count(BOOK_TITLE) as 'Books In Subject'
from BOOK
group by BOOK_SUBJECT
order by 'Books In Subject' DESC;
```

```
/* 85 */
select AU_ID, count(BOOK_NUM) as "Books Written"
from WRITES
group by AU_ID
order by "Books Written" DESC , AU_ID;
```

```
/* 86 */
select sum(BOOK_COST) as 'Library Value'
from BOOK;
```

```
/* 87 */
select PAT_ID as 'PATRON', BOOK_NUM as 'BOOK', (CHECK_IN_DATE - CHECK_OUT_DATE) as
'Days Kept'
from CHECKOUT
order by 'Days Kept' DESC, 'PATRON', 'BOOK';
```

```
/* 88 */
select PAT_ID, concat(PAT_FNAME, ' ', PAT_LNAME) as 'Patron Name', PAT_TYPE
```

```

from PATRON
order by PAT_ID ASC;

/* 89 */
select BOOK_NUM, concat(BOOK_TITLE, ' ', BOOK_YEAR) BOOK_SUBJECT
from BOOK
order by BOOK_NUM;

/* 90 */
select a.AU_LNAME, a.AU_FNAME, BOOK_NUM
from AUTHOR a , BOOK b
order by AU_LNAME, AU_FNAME;

/* 91 */
select AU_ID, a.BOOK_NUM, a.BOOK_TITLE, a.BOOK_SUBJECT
from BOOK a, AUTHOR b
order by BOOK_NUM, AU_ID;

/* 92 */
select a.AU_LNAME, a.AU_FNAME, b.BOOK_TITLE, b.BOOK_COST
from AUTHOR a, BOOK b
order by BOOK_NUM, AU_ID;

/* 93 */
select a.PAT_ID, b.BOOK_NUM, a.PAT_FNAME, a.PAT_LNAME, b.BOOK_TITLE
from PATRON a, BOOK b, CHECKOUT
where CHECK_IN_DATE is null
order by PAT_LNAME, BOOK_TITLE;

/* 94 */
select PAT_ID, concat(PAT_FNAME, ' ', PAT_LNAME) as 'NAME', PAT_TYPE
from PATRON
order by 'NAME';

/* 95 */
select 'BOOK_NUM', count(*) as 'TIME CHECKED OUT'
from CHECKOUT
where 'TIME CHECK OUT' > '0'
group by 'CHECK_OUT_DATE'
order by 'TIME CHECKED OUT' DESC;

/* 96 */
select a.AU_ID, a.AU_FNAME, a.AU_LNAME, b.BOOK_NUM, b.BOOK_TITLE
from AUTHOR a, BOOK b
where BOOK_SUBJECT like "%Cloud%"
group by BOOK_TITLE
order by BOOK_TITLE, AU_LNAME;

/* 97 */
select b.BOOK_NUM, b.BOOK_TITLE, a.AU_LNAME, a.AU_FNAME, p.PAT_ID, p.PAT_LNAME,
p.PAT_TYPE
from BOOK b, AUTHOR a , PATRON p, CHECKOUT
where CHECK_OUT_DATE is not null
order by BOOK_TITLE;

/* 98 */
select 'b.BOOK_NUM', 'b.BOOK_TITLE', count(*) as 'TIME CHECKED OUT'
from BOOK b, CHECKOUT

```

```

order by 'TIME CHECKED OUT' , BOOK_TITLE;

/* 99 */
select b.BOOK_NUM, b.BOOK_TITLE, count(Distinct c.CHECK_IN_DATE) as 'TIME CHECKED
OUT'
from BOOK b, CHECKOUT c
order by 'TIME CHECKED OUT' , BOOK_TITLE;

/* 100 */
select a.AU_ID, a.AU_LNAME, b.BOOK_TITLE, c.CHECK_OUT_DATE, c.PAT_LNAME
from AUTHOR a, BOOK b, CHECKOUT c
where AU_LNAME = 'BRUER' and PAT_LNAME = 'MILES'
order by CHECK_OUT_DATE;

/* 101 */
select PAT_ID, PAT_FNAME, PAT_LNAME
from PATRON
where CHECK_OUT_DATE is null
order by PAT_LNAME, PAT_FNAME;

/* KCT */
/* A */
select *
from costume;
select *
from costumetype;

/* B */
select costumetype
from costume;

/* C */
select costumetype
from costume
group by costumetype;

/* D */
select CostumeID, CostumeType
from costume
where size like '%small%';

/* E */
select CostumeID, CostumeType
from costume
where size like '%small%' and available >0;

/* F */
select TypeID, Description
from costumetype
where Photo is not null;

/* G */
select TypeID, Description
from costumetype
where Photo is null
order by TypeID DESC;

/* H */
select MAX(DailyRentalRate) as 'Highest Daily Rental Rate'

```

```
from costumetype;
```

```
/* I */  
select avg(DailyRentalRate) as 'Average Daily Rental Rate'  
from costumetype;
```

```
/* J */  
select count(costumeID) as 'Number of Costumes'  
from costume;
```

```
/* K */  
select costumeType,count(costumeID) as 'Number of Costumes'  
from costume  
group by costumeType  
order by 'Number of Costumes' DESC;
```

```
/* L */  
select costumeType,count(costumeID) as 'Number of Costumes'  
from costume  
where available >0  
group by costumeType  
order by 'Number of Costumes' DESC;
```